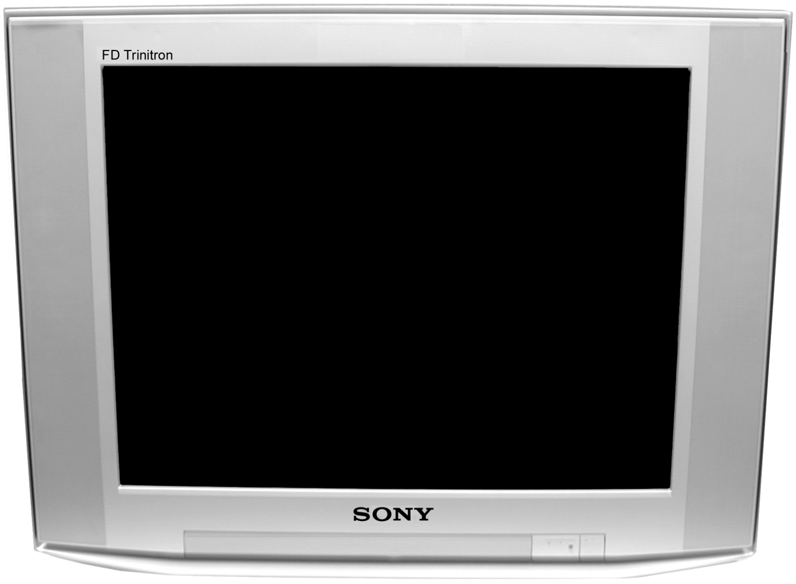
Self Diagnosis
Supported model

SERVICE MANUAL DX-1A CHASSIS

MODEL	COMMANDER	DEST	CHASSIS NO.
KV-32XBR400	RM-Y174	US	SCC-S47A-A
KV-32XBR400	RM-Y174	CND	SCC-S48A-A
KV-36XBR400	RM-Y174	US	SCC-S47B-A
KV-36XBR400	RM-Y174	CND	SCC-S48B-A
KV-38DRC1	RM-Y174	E	SCC-S49A-A
KV-38DRC1C	RM-Y174	E	SCC-S49B-A
KV-36XBR400H	RM-Y174	HAWAII	SCC-S54A-A



KV-32XBR400

RM-Y174

TRINITRON® COLOR TV

SONY®

SPECIFICATIONS

	KV-32XBR400	KV-38DRC1 KV-36XBR400 KV-36XBR400H	KV-38DRC1C
Power requirements	120V, 60 Hz	120V, 60 Hz	220V, 50/60Hz
Number of inputs/outputs			
Video 1)	4		
S Video 2)	3		
Y,PB,PR 3)	2		
Audio 4)	6		
Audio Out 5)	2		
Monitor Out	1		
Control-S (in/out)	YES		
Speaker output(W)	15W x 2		
Power Consumption(W)			
In use(Max)	245W		
In standby	2W		
Dimensions(W/H/D)			
(mm)	898 x 678 x 579.5	994 x 754.5 x 622	
(in)	35 $^{3/8}$ x 26 $^{3/4}$ x 27 $^{7/8}$	39 $^{9/64}$ x 29 $^{45/64}$ x 24 $^{1/2}$	
Mass			
(kg)	84kg	108kg	
(lbs)	185 lbs	238 lbs	

1) 1 Vp-p 75 ohms unbalanced, sync negative

2) Y: 1 Vp-p 75 ohms unbalanced, sync negative
C: 0.286 Vp-p (Burst signal), 75 ohms

3) Y: 1.0 Vp-p, 75 ohms, sync negative;
PB: 0.7 Vp-p, 75 ohms;
PR: 0.7 Vp-p, 75 ohms

4) 500mVrms (100% modulation), impedance: 47kilohms

5) More than 408 mVrms at the maximum volume setting (variable)
More than 408 mVrms (fix)

Television system

American TV standard/NTSC

Channel coverage

VHF:2-13/UHF:14-69/CATV:1-125

Visible screen size

FD Trinitron® tube

Visible screen size

32” picture measured diagonally (KV-32XBR400)
36” picture measured diagonally (KV-36XBR400/36XBR400H/38DRC1/38DRC1C)

Actual screen size

34” picture measured diagonally (KV-32XBR400)
38” picture measured diagonally (KV-36XBR400/36XBR400H/38DRC1/38DRC1C)

Antenna

75 ohm external antenna terminal for VHF/UHF

Supplied accessories

Remote Commander RM-Y174
Two Size AA (R6) batteries

Optional accessories

Connecting cables: RK-74A, VMC-810S/820/830HGS, VMC-720M,
VMC-810S/820S, YC-15V/30V, YC-15/30HG, RKG69HG, RKC-515HG
U/V mixer: EAC-66
TV Stand: SU-32XBR4A, SU-36XBR4A

Design and specifications are subject to change without notice.

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WARNINGS AND CAUTIONS

CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS. THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS, AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL FOR SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

ATTENTION!!

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

ATTENTION!!

AFIN D'EVITER TOUT RESQUE D'ELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE. LE CHÁSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ À L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS A LA SECURITE!!

LES COMPOSANTS IDENTIFIES PAR UNE TRAME ET PAR UNE MARQUE ⚠ SUR LES SCHEMAS DE PRINCIPE, LES VUES EXPLOSEES ET LES LISTES DE PIECES SONT D'UNEIMPORTANCE CRITIQUE POUR LA SECURITE DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMERO DE PIECE EST INDIQUE DANS LE PRESENT MANUEL OU DANS DES SUPPLEMENTS PUBLIES PAR SONY. LES REGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SECURITE DU FONCTIONNEMENT SONT IDENTIFIES DANS LE PRESENT MANUEL. SUIVRE CES PROCEDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONTIONNEMENT SUSPECTE.

SELF-DIAGNOSTIC FUNCTION

The units in this manual contain a self-diagnostic function. If an error occurs, the STANDBY/STEREO LED will automatically begin to flash. The number of times the LED flashes translates to a probable source of the problem. A definition of the STANDBY/STEREO LED flash indicators is listed in the instruction manual for the user's knowledge and reference. If an error symptom cannot be reproduced, the Remote Commander can be used to review the failure occurrence data stored in memory to reveal past problems and how often these problems occur.

Diagnostic Test Indicators

When an error occurs, the STANDBY/STEREO LED will flash a set number of times to indicate the possible cause of the problem. If there is more than one error, the LED will identify the first of the problem areas. Due to a hardware upgrade, there is no LED flashing in sets using Ver.1.0 system micros. This has been addressed in Ver.2.0 system micros.

Results for all of the following diagnostic items are displayed on screen. No error has occurred if the screen displays a "0".

Diagnostic Item/Description	No. of times STANDBY/STEREO LED flashes	Self-diagnostic Display/ Diagnostic result	Probable Cause Location	Detected Symptoms
Power does not turn on	Does not light		• Power cord is not plugged in. • Fuse is burned out. (F5501)	• Power does not come on. • No power is supplied to the TV. • AC power supply is faulty.
+B overcurrent (OCP) (see Note 1)	2 times	2:0 or 2:1	• H.OUT (Q5030) is shorted. (D board) • +B PWM (Q5003) is shorted. (D board) • IC9001,IC9002, IC9003 is shorted. (C board)	• Power does not come on. • Load on power line is shorted.
Low B overvoltage (OVP)	3 times	3:0 or 3:1	• IC6505 is faulty. (D Board)	• Has entered standby mode.
Vertical deflection stopped	4 times	4:0 or 4:1	• +/-15V is not supplied. (D board) • IC 5004 is faulty. (D board)	• Has entered standby state after horizontal raster. • Vertical deflection pulse is stopped. • Power line is shorted or power supply is stopped.
White balance failure (not balanced)	5 times	5:0 or 5:1	• Video OUT (IC9001-IC9003) is faulty. (C board) • CRT Drive (IC201) is faulty. (A Board) • G2 is improperly adjusted. (see Note 2)	• No raster is generated. • CRT cathode current detection reference pulse output is small

Diagnostic Item/Description	No. of times STANDBY/STEREO LED flashes	Self-diagnostic Display/ Diagnostic result	Probable Cause Location	Detected Symptoms
LOW B OCP/OVP (overcurrent/overvoltage) (see Note 3)	6 times	6:0 or 6:1	• +5 line is overloaded. (A, B Boards) • +5 line is shorted. (A, B Boards) • IC6007 is faulty. (A Board)	• No picture
Horizontal Deflection Stopped	7 times	7:0 or 7:1		• No picture

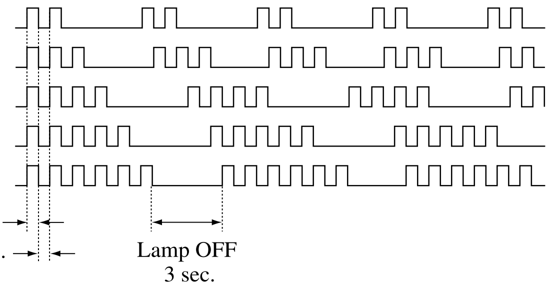
Note 1: If a +B overcurrent is detected, stoppage of the vertical deflection is detected simultaneously. The symptom that is diagnosed first by the microcontroller is displayed on screen.

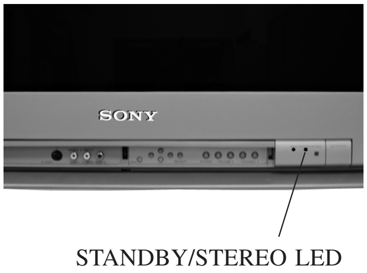
Note 2: Refer to Screen (G2) Adjustment in Section 3-4 of this manual.

Note 3: If STANDBY/STEREO LED flashes 6 times, unplug unit and wait ten seconds before performing adjustment.

Display of Standby/Timer LED Flash Count

Diagnostic items	Flash count
+B overcurrent	2 times
+B /Low B overvoltage	3 times
Vertical deflection stopped	4 times
White balance failure	5 times
Low B Error	6 times
Horizontal deflection stopped	7 times





*One flash count is not used for self-diagnostic.

Stopping the STANDBY/STEREO LED Flash

Turn off the power switch on the TV main unit or unplug the power cord from the outlet to stop the STANDBY/STEREO LED from flashing.

Self-Diagnostic Screen Display

For errors with symptoms such as “power sometimes shuts off” or “screen sometimes goes out” that cannot be confirmed, it is possible to bring up past occurrences of failure on the screen for confirmation.

To Bring Up Screen Test

In standby mode, press buttons on the Remote Commander sequentially, in rapid succession, as shown below:

Display ➡ Channel 5 ➡ Sound volume – ➡ Power ON

⇧

Note that this differs from entering the service mode (sound volume +).

Self-Diagnostic Screen Display

```
SELF DIAGNOSTIC
2: +B OCP        0
3: +B OVP        0
4:  V STOP       0
5: AKB           1
6: LOWB          0
7:H-STOP         0
101: WDT         0
```

Numeral “0” means that no fault was detected.

Numeral “1” means a fault was detected one time only.

Handling of Self-Diagnostic Screen Display

Since the diagnostic results displayed on the screen are not automatically cleared, always check the self-diagnostic screen during repairs. When you have completed the repairs, clear the result display to “0”.

Unless the result display is cleared to “0”, the self-diagnostic function will not be able to detect subsequent faults after completion of the repairs.

Clearing the Result Display

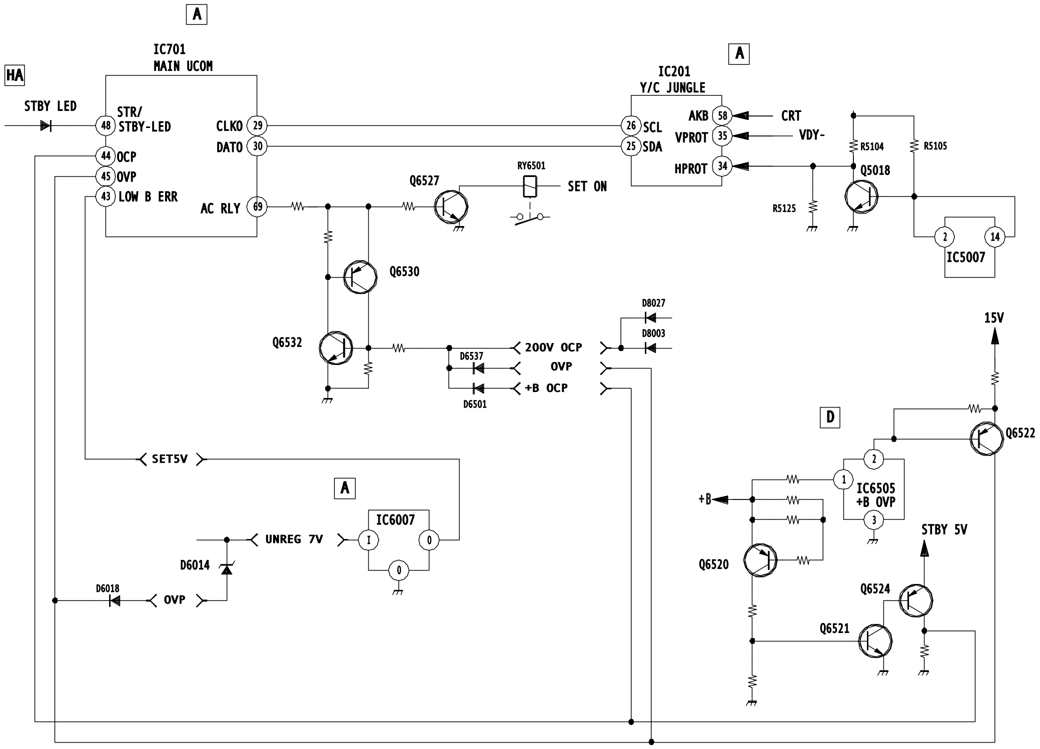
To clear the result display to “0”, press buttons on the Remote Commander sequentially when the diagnostic screen is displayed, as shown below:

Channel [8] ➡ [ENTER]

Quitting the Self-Diagnostic Screen

To quit the entire self-diagnostic screen, turn off the power switch on the Remote Commander or the main unit.

Self-Diagnostic Circuit


A
HA
IC701
MAIN UCOM
STBY LED
48 STR/ STBY-LED
44 OCP
45 OVP
43 LOW B ERR
CLKO 29
DATO 30
AC RLY 69
Q6527
RY6501
SET ON
Q6530
Q6532
A
IC201
Y/C JUNGLE
26 SCL
25 SDA
AKB 58
VPROT 35
HPROT 34
CRT
VDY-
R5104
R5105
Q5018
R5125
2
14
IC5007
D8027
D8003
200V OCP
OVP
+B OCP
D6537
D6501
15V
D
Q6522
2
1
3
IC6505
+B OVP
+B
STBY 5V
Q6520
Q6524
Q6521
SET5V
A
IC6007
I
O
G
UNREG 7V
D6014
D6018
OVP

+B overcurrent (OCP)	Occurs when an overcurrent (more than 6A) on the +B (135V) line is detected by R6598/ R6591. It will cause Q6520 to turn on and force the AC relay to turn off through Q6532 and Q6530.
+B overvoltage (OVP)	Occurs when 1) overvoltage (more than +140V) on the +B (135V) line is detected by IC6505 or 2) an overvoltage (more than 7.5V) on the unreg 7V line is detected by D6014. The AC Relay will turn off through Q6532 and Q6530.
Vertical Deflection Stopped	Occurs when an absence of the vertical deflection pulse is detected by IC201. Power supply will shut down when waveform interval exceeds 2 seconds.
White Balance Failure	If the RGB levels do not balance within 2 seconds after the power is turned on, this error will be detected by IC201. The unit will stay on, but there will be no picture. *(Refers to the RGB levels of the AKB detection Ref pulse that detects 1K).
Low B Error	Occurs when set 5V is out.
Horizontal Deflection Stopped	Occurs when either 1) a +B overcurrent is detected (IC5007) or 2) overheating is detected (Thermistor TH5002).

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are “pinched” or touching high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the B+ and HV to see if they are specified values. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
8. Check the antenna terminals, metal trim, “metallized” knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

Leakage Test

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instructions.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The “limit” indication is 0.75 V, so analog meters must have an accurate low voltage scale. The Simpson’s 250 and Sanwa SH-63TRD are examples of passive VOMs that are suitable. Nearly all battery-operated digital multimeters that have a 2 VAC range are suitable (see Figure A).

How to Find a Good Earth Ground

A cold-water pipe is a guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60- to 100-watt trouble- light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side on the line; the lamp should light at normal brilliance if the screw is at ground potential (see Figure B).

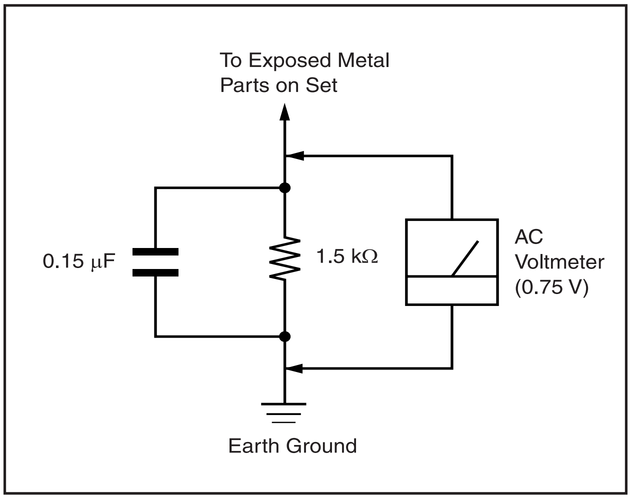


Figure A. Using an AC voltmeter to check AC leakage.

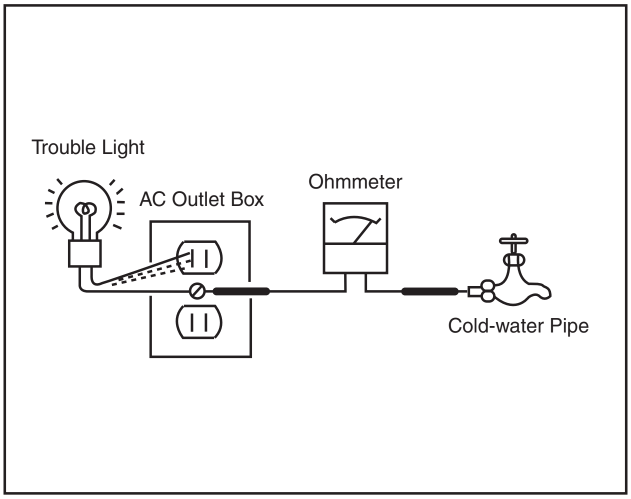


Figure B. Checking for earth ground.

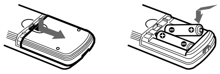
SECTION 1 GENERAL

The instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers shown reflect those of the Operating Instruction Manual.

Using the Remote Control

Inserting Batteries

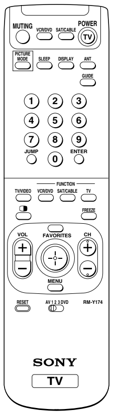
Insert two size AA (R6) batteries (supplied) by matching the + and – on the batteries to the diagram inside the battery compartment.



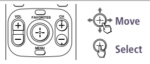
Remove the batteries to avoid damage from possible battery leakage whenever you anticipate that the remote control will not be used for an extended period.

Handle the remote control with care. Avoid dropping it, getting it wet, or placing it in direct sunlight, near a heater, or where the humidity is high.

Remote Control Overview

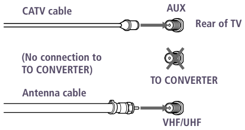

MUTING
VCR/DVD
SAT/CABLE
POWER
TV
PICTURE MODE
SLEEP
DISPLAY
ANT
GUIDE
1
2
3
4
5
6
7
8
9
JUMP
0
ENTER
FUNCTION
TV/VIDEO
VCR/DVD
SAT/CABLE
TV
FREEZE
VOL
FAVORITES
CH
MENU
RESET
AV 1 2 3 DVD
RM-Y174
SONY
TV

Here's an overview of the buttons on the remote control you will probably use most often. For a complete description of the remote control, see "Using the Remote Control" on page 40.

To Do This ...	*Use This Button*
Turn the TV on and off	TV (POWER)
Select channels directly	0 – 9 and ENTER Press 0 – 9 to select a channel, the channel changes after 2 seconds. Press ENTER for immediate selection.
Scan through channels	CH +/- To scan rapidly through the channels, press and hold down the CH+ or CH- button.
Adjust the volume	VOL +/-
Switch video inputs (such as a VCR)	TV/VIDEO Press repeatedly to toggle through all video inputs.
Display the Menu to make changes to the TV	MENU For details, see "Using the Menus" on page 25.
View the Favorite Channels list	FAVORITES For details, see "Using Favorite Channels" on page 20.
Using the on-screen functions	 VOL FAVORITES CH MENU Move Select

Cable and Antenna

If your cable provider does not feature local channels, you may find this set up convenient.


CATV cable
AUX
Rear of TV
(No connection to TO CONVERTER)
TO CONVERTER
Antenna cable
VHF/UHF

Select CABLE or antenna (ANT) mode by pressing ANT on the remote control.

In order to receive channels with an antenna, you need to turn your Cable to OFF and perform the Auto Program function (see page 30).

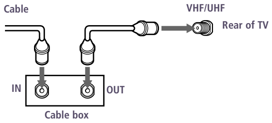
Cable Box Connections

Some pay cable TV systems use scrambled or encoded signals that require a cable box to view all channels.

Cable Box

1 Connect the coaxial connector from your cable service to the cable box's IN jack.

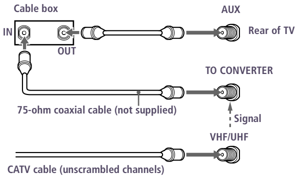
2 Using a coaxial cable, connect the cable box's OUT jack to the TV's VHF / UHF jack.


Cable
VHF/UHF
Rear of TV
IN
OUT
Cable box

If you will be controlling all channel selection through your cable box, you should consider using the Channel Fix feature (see page 30).

Cable Box and Cable

For this set up, you can switch between scrambled channels (through your cable box), and normal (CATV) channels by pressing ANT on the remote control.


Cable box
AUX
IN
OUT
Rear of TV
TO CONVERTER
75-ohm coaxial cable (not supplied)
Signal
VHF/UHF
CATV cable (unscrambled channels)

Your Sony remote control can be programmed to operate your cable box (see "Programming the Remote Control" on page 42).

When using Favorite Channel or Twin View, you cannot view the AUX input in the window picture.

Pressing ANT switches between these inputs.

If you are connecting a cable box through the AUX input and would like to switch between the AUX and normal (CATV) input you should consider using the Channel Fix feature (see page 30).

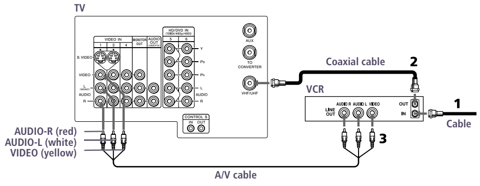
Connecting a VCR and Cable

1 Connect the cable TV cable to the VCR's IN jack.

2 Using a coaxial cable, connect the VCR's OUT jack to the TV's VHF / UHF jack.

3 Using an A / V cable, connect the VCR's A / V OUT jacks to the TV's A / V IN jacks.

If your VCR has an S VIDEO jack: For best picture quality, use an S VIDEO connection instead of the yellow video cable on your combined A/V cable. Using an S VIDEO cable, connect the VCR's S VIDEO OUT jack to the TV's S VIDEO IN jack. S VIDEO does not provide audio, so audio cables must still be connected to provide sound.


TV
VIDEO IN
1
3
4
MONITOR OUT
AUDIO OUT (VAR/FIX)
HD/DVD IN (1080i/480p/480i)
5
6
S VIDEO
VIDEO
L (MONO)
AUDIO
R
Y
PB
PR
L
AUDIO
R
AUX
TO CONVERTER
VHF/UHF
CONTROL S
IN
OUT
Coaxial cable
2
VCR
AUDIO R
AUDIO L
VIDEO
LINE OUT
OUT
IN
1
Cable
3
AUDIO-R (red)
AUDIO-L (white)
VIDEO (yellow)
A/V cable

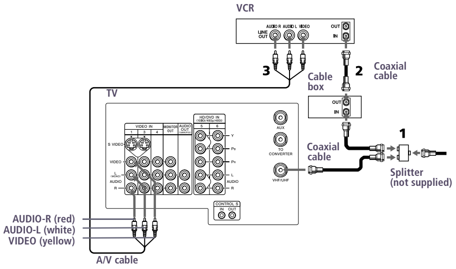
Connecting a VCR and Cable Box

1 Connect the single (input) jack of the splitter to your incoming cable connection, and connect the other two (output) jacks (using coaxial cable) to IN on your cable box and VHF / UHF on your TV.

2 Using a coaxial cable, connect the cable box's OUT jack to the VCR's VHF / UHF IN jack.

3 Using an A / V cable, connect the VCR's A / V OUT jacks to the TV's A / V IN jacks.

✍ If your VCR has an S VIDEO jack: For best picture quality, use an S VIDEO connection instead of the yellow video cable on your combined A/V cable. Using an S VIDEO cable, connect the VCR's S VIDEO OUT jack to the TV's S VIDEO IN jack. S VIDEO does not provide audio, so audio cables must still be connected to provide sound.


VCR
LINE OUT
AUDIO R
AUDIO L
VIDEO
OUT
IN
3
2
Cable box
Coaxial cable
TV
OUT
IN
1
Coaxial cable
Splitter (not supplied)
AUDIO-R (red)
AUDIO-L (white)
VIDEO (yellow)
A/V cable

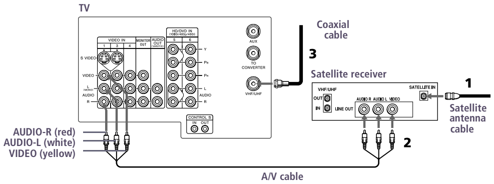
Connecting a Satellite Receiver

1 Connect the satellite antenna cable to the satellite receiver's SATELLITE IN jack.

2 Using an A / V cable, connect the satellite receiver's A / V OUT jacks to the TV's A / V IN jacks.

3 Connect a coaxial cable from your cable or antenna to the TV's VHF / UHF jack.

✍ If your satellite receiver has an S VIDEO jack: For best picture quality, use an S VIDEO connection instead of the yellow video cable on your combined A/V cable. Using an S VIDEO cable, connect the satellite receiver's VIDEO OUT jack to the TV's S VIDEO IN jack. S VIDEO does not provide audio, so audio cables must still be connected to provide sound.


TV
Coaxial cable
3
Satellite receiver
VHF/UHF
OUT
IN
LINE OUT
AUDIO R
AUDIO L
VIDEO
SATELLITE IN
1
Satellite antenna cable
2
AUDIO-R (red)
AUDIO-L (white)
VIDEO (yellow)
A/V cable

Connecting a Satellite Receiver with a VCR

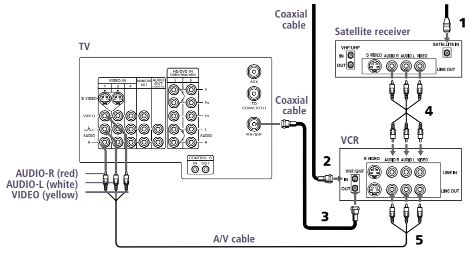
1 Connect the satellite antenna cable to the satellite receiver's SATELLITE IN jack.

2 Connect the CATV cable to the VCR's VHF / UHF IN jack.

3 Using a coaxial cable, connect the VCR's OUT jack to the TV's VHF / UHF jack.

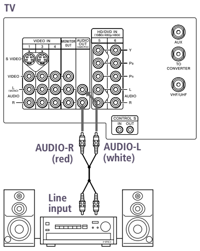
4 Using an A / V cable, connect the satellite receiver's A / V OUT jacks to the VCR's A / V IN jacks.

5 Using an A / V cable, connect the VCR's A / V OUT jacks to the TV's A / V IN jacks.


Coaxial cable
Satellite receiver
1
TV
VHF/UHF
IN
OUT
S VIDEO
AUDIO R
AUDIO L
VIDEO
SATELLITE IN
LINE OUT
Coaxial cable
4
VCR
2
LINE IN
LINE OUT
3
AUDIO-R (red)
AUDIO-L (white)
VIDEO (yellow)
A/V cable
5

Connecting an Audio Receiver

1 Using audio cables, connect the TV's AUDIO OUT jacks to the audio receiver's audio LINE IN jacks.


TV
AUDIO-R (red)
AUDIO-L (white)
Line input

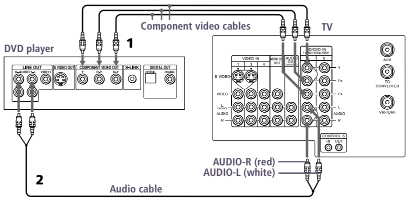
Connecting a DVD Player with Component Video Connectors

1 Using three separate component video cables, connect the DVD player's Y, PB, and PR jacks to the Y, PB, and PR jacks on the TV.

✍ The Y, PB, and PR jacks on your DVD player are sometimes labeled Y, CB, and CR, or Y, B-Y, and R-Y. If so, connect the cables to like colors.

The Y, PB, and PR jacks do not provide audio, so audio cables must be connected to provide sound.

2 Using an audio cable, connect the DVD player's audio OUT jacks to the TV's audio IN jacks.

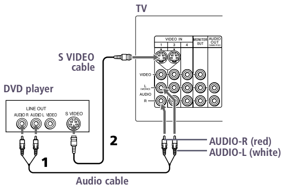

Component video cables
TV
DVD player
1
AUDIO-R (red)
AUDIO-L (white)
2
Audio cable

Connecting a DVD Player with A/V Connectors

✍ If your DVD player has video component output connectors: for best picture quality use the connection described on page 15.

1 Using audio cables, connect the DVD player's audio OUT jacks to the TV's audio IN jacks.

2 Using an S VIDEO cable, connect the DVD player's S VIDEO jack to the TV's S VIDEO jack.


TV
S VIDEO cable
DVD player
2
1
AUDIO-R (red)
AUDIO-L (white)
Audio cable

Connecting a Digital TV Receiver

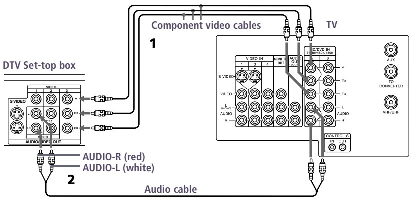
Be sure to read the manual for the Set-top box.

1 Using three separate component video cables, connect the Digital TV Set-top box's Y, PB, and PR jacks to the TV.

✍ The Y, PB, and PR jacks do not provide audio, so audio cables must be connected to provide sound.

Component input (Y, PB, and PR) is recommended for optimum picture quality. You may also use component video or S Video connections.

2 Using an audio cable, connect the DTV Set-top box's audio OUT jacks to the TV's audio IN jacks.

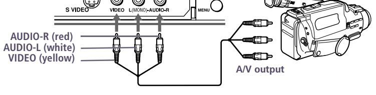

Component video cables
TV
1
DTV Set-top box
AUDIO-R (red)
AUDIO-L (white)
2
Audio cable

Connecting a Camcorder

1 Using A / V cables, connect the camcorder's A / V OUT jacks to the TV's A / V IN jacks.

✍ If you have a mono camcorder, connect its left audio output to the TV's AUDIO L jack.

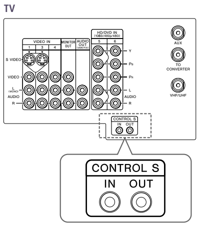
For easy connection of the camcorder, the TV has front A/V inputs (shown below). However, if you prefer, you can also connect the camcorder to the TV's rear A/V IN jacks.


VIDEO 2 INPUT
S VIDEO
VIDEO
L(MONO)-AUDIO-R
MENU
AUDIO-R (red)
AUDIO-L (white)
VIDEO (yellow)
A/V output

Using the CONTROL S Feature

CONTROL S allows you to control your TV system and other Sony equipment with one remote control.

To control your other Sony equipment with your TV's remote control, use a CONTROL S cable (not supplied) to connect the equipment's CONTROL S IN jack to the TV's CONTROL S OUT jack.


TV
CONTROL S
IN
OUT

Setting Up the TV Automatically

After you finish connecting your TV, you need to run Auto Setup to set up your channels.

✍ The Auto Setup feature does not apply for installations that use a cable box for all channel selection.

Using Auto Setup

1 Press POWER to turn on the TV.

The first time you turn on the TV, the Auto Setup screen appears.

2 Press CH+ to run Auto Setup or press CH– to exit.

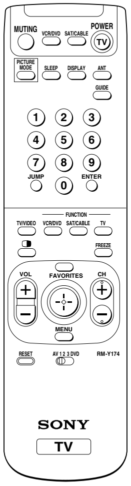
✍ You can run Auto Program by selecting it in the Channel menu, as described on page 30.

Using the Remote Control

The following table describes the buttons on the remote control that are for more advanced functions.

✍ Main Power button must be turned ON to activate the Remote Control.

Button Descriptions

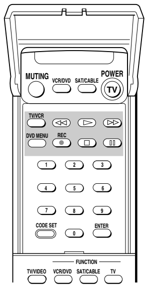


Outside Panel

Button	Description
MUTING	Press to mute the sound. Press again or press VOL + to restore the sound.
VCR/DVD (POWER)	Turns the DVD player, MDP player, or VTR (VCR) on and off.
SAT/CABLE (POWER)	Turns the satellite receiver or cable box on and off.
TV (POWER)	Turns the TV on and off.
PICTURE MODE	Press repeatedly to step through the available video picture modes: Vivid, Standard, Pro, Movie. Also available in the Video menu. For details, see “Selecting Video Options” on page 26.
SLEEP	Press repeatedly until the TV displays the time in minutes (15, 30, 45, 60, or 90) that you want the TV to remain on before shutting off automatically. Cancel by pressing until SLEEP OFF appears. While Sleep feature is set, press once to view remaining time
DISPLAY	Press once to display the current time and channel label (if set) and channel number. Press again to turn Display off. See page 34 for details on setting the time.
ANT	Changes the VHF/UHF input to the AUX input.
GUIDE	Displays the program guide of your satellite antenna.
0 – 9 and ENTER	Press 0 – 9 to select a channel, the channel changes after 2 seconds. Press ENTER for immediate selection.
JUMP	Press to jump back and forth between two channels. The TV alternates between the current channel and the last channel that was selected.
TV/VIDEO	Cycles through available video inputs: TV, VIDEO 1, VIDEO 2, VIDEO 3, VIDEO 4, VIDEO 5, VIDEO 6.
VCR/DVD (FUNCTION)	Activates the remote control for use with a DVD player, MDP, or VTR (VCR).
SAT/CABLE (FUNCTION)	Activates the remote control for use with a satellite receiver or cable box.
TV (FUNCTION)	Activates the remote control for use with the TV.

💡 To scan rapidly through the channels, press and hold down the CH+ or CH- button.

Button	Description
◨	Turns on/off Twin Mode. For details, see “Using Twin View” on page 21.
FREEZE	Freezes the window picture. Press again to restore the picture.
VOL +/-	Adjusts the volume.
FAVORITES	Displays the Favorite Channels list. For details, see “Using Favorite Channels” on page 20.
CH +/-	Scan through channels.
⊕	Joystick allows for movement of the on-screen cursor. Pressing down on the center of the joystick selects the item.
MENU	Press to display the TV menu. Press again to exit from the menus.
RESET	Resets the TV to the factory default settings for the Video and Audio menus. (Clears setting on Channel and Timer)
AV 1 2 3 DVD	Use to switch control for connected video equipment. You can program one video source for each switch position (see page 42).



Inside Panel

Button	Description
TV/VCR	Changes the VHF/UHF output of the VCR.
◀◀	Rewind
▶	Play
▶▶	Fast-forward
DVD MENU	Displays the DVD menu.
REC	Record
■	Displays the DVD menu.
❚❚	▶▶ or ◀◀ during playback (release to resume normal playback)
0 – 9 and ENTER	Press 0 – 9 to select a VCR channel, the channel changes after 2 seconds. Press ENTER for immediate selection.
CODE SET	Used for programming the remote control to operate non-Sony video equipment. For details, see “Programming the Remote Control” on page 42.

Programming the Remote Control

The remote control is preset to operate Sony brand video equipment.

Sony Equipment	Switch Position on Remote Control	Programmable Code Number
Beta, ED Beta VCRs	VTR1	303
8 mm VCR	VTR2	302
VHS VCR	VTR3	301
DVD Player	DVD/MDP	751

If you have video equipment other than Sony brand that you want to control with the TV’s remote control, use the following procedures to program the remote control.

✍ The equipment must have infrared (IR) remote capability in order to be used with the remote control.

1. Turn to “Programmable Codes” on page 43, and find the three-digit code number for your equipment. If more than one code number is listed, use the number listed first to complete the following procedure.

   ✍ You must perform step 3 within 10 seconds of step 2, or you must start again from step 2.

2. Press CODE SET.
3. Move the slide switch to the desired input.
4. Enter the three-digit code number.
5. Press ENTER.

💡 To check if the code number works, after step 5 aim the TV’s remote control at the component and press the POWER button that corresponds with that component. If it responds, you’re done. If not, try using the other codes listed for your component.

Tips

- ❑ If more than one code number is listed, try entering them one by one until you come to the correct code for your equipment.
- ❑ If you enter a new code number, the code number you previously entered at that setting is erased.
- ❑ In some rare cases, you may not be able to operate your equipment with the supplied remote control. In this case, use the equipment’s own remote control unit.
- ❑ Whenever you remove the batteries to replace them, the code numbers may revert to the factory setting and must be reset.

Programmable Codes

VCRs

Manufacturer	Code
Sony	301
Admiral (M. Ward)	327
Aiwa	338, 344
Audio Dynamic	314, 337
Broksonic	319, 317
Canon	309, 308
Citizen	332
Craig	302, 332
Criterion	315
Curtis Mathes	304, 338, 309
Daewoo	341, 312, 309
DBX	314, 336, 337
Dimensia	304
Emerson	319, 320, 316, 317, 318, 341
Fisher	330, 335
Funai	338
General Electric	329, 304, 309
Go Video	322, 339, 340
Goldstar	332
Hitachi	306, 304, 305,338
Instant Replay	309, 308
JC Penney	309, 305, 304, 330, 314, 336, 337
JVC	314, 336, 337, 345, 346, 347
Kenwood	314, 336, 332, 337
LXI (Sears)	332, 305, 330, 335, 338
Magnavox	308, 309, 310
Marantz	314, 336, 337
Marta	332
Memorex	309, 335
Minolta	305, 304
Mitsubishi/MGA	323, 324, 325, 326
Multitech	325, 338, 321
NEC	314, 336, 337
Olympic	309, 308
Optimus	327
Panasonic	308, 309, 306, 307
Pentax	305, 304
Philco	308, 309
Philips	308, 309, 310
Pioneer	308
Quasar	308, 309, 306
RCA/PROSCAN	304, 305, 308, 309, 311, 312, 313, 310, 329
Realistic	309, 330, 328, 335, 324, 338
Sansui	314
Samsung	322, 313, 321
Sanyo	330, 335
Scott	312, 313, 321, 335, 323, 324, 325, 326
Sharp	327, 328
Shintom	315
Signature 2000 (M. Ward)	338, 327
SV2000	338
Sylvania	308, 309, 338, 310
Symphonic	338
Tashiro	332
Tatung	314, 336, 337
Teac	314. 336, 338, 337
Technics	309, 308
Toshiba	312, 311
Wards	327, 328, 335, 331, 332
Yamaha	314, 330, 336, 337
Zenith	331

Laserdisc Players

Manufacturer	Code
Panasonic	704, 710
Pioneer	702

DVD Players

Manufacturer	Code
Sony	751
Panasonic	753
Pioneer	752
RCA	755
Toshiba	754

Cable Boxes

Manufacturer	Code
Hamlin/Regal	222, 223, 224, 225, 226
Jerrold/G. I.	201, 202, 203, 204, 205, 206, 207, 208, 218
Oak	227, 228, 229
Panasonic	219, 220, 221
Pioneer	214, 215
Scientific Atlanta	209, 210, 211
Tocom	216, 217
Zenith	212, 213

Satellite Receivers

Manufacturer	Code
Sony	801
General Electric	802
Hitachi	805
Hughes	804
Panasonic	803
RCA/PROSCAN	802, 808
Toshiba	806, 807

Operating a VCR

To Do This ...	Press
Turn on / off	VTR/DVD (POWER)
Change channels	CH +/-
Record	► and REC simultaneously.
Play	►
Stop	■
Fast forward	►►
Rewind the tape	◄◄
Pause	❚❚ (press again to resume normal playback)
Search the picture forward or backward	►► or ◄◄ during playback (release to resume normal playback)
Change input mode	TV/VCR

Operating an MDP (Laserdisc Player)

To Do This ...	Press
Turn on / off	VCR/DVD (POWER)
Play	►
Stop	■
Pause	❚❚ (press again to resume normal playback)
Search the picture forward or backward	►► or ◄◄ during playback (release to resume normal playback)
Search a chapter forward or backward	CH +/-

Operating a Satellite Receiver

To Do This ...	Press
Turn on / off	SAT/CABLE (POWER)
Select a channel	0-9 buttons, ENTER
Change channels	CH +/-
Back to previous channel	JUMP
Display channel number	DISPLAY
Display DBS guide	GUIDE
Display DBS menu	MENU
Move highlight (cursor)	Joystick or arrows
Select item	✛ button

Operating a DVD Player

To Do This ...	Press
Turn on / off	VTR/DVD (POWER)
Play	►
Stop	■
Pause	❚❚ (press again to resume normal playback)
Step through different tracks of an audio disc	►► to step forward or ◄◄ to step backward
Step through different chapters of a video disc	CH+ to step forward or CH- to step backward
Display the DVD menu	DVD MENU
Select tracks directly	0-9 buttons
Display the menu (Setup)	MENU

Operating a Cable Box

To Do This ...	Press
Turn on / off	SAT/CABLE (POWER)
Select a channel	0-9 buttons, ENTER
Change channels	CH +/-
Back to previous channel	JUMP

Troubleshooting

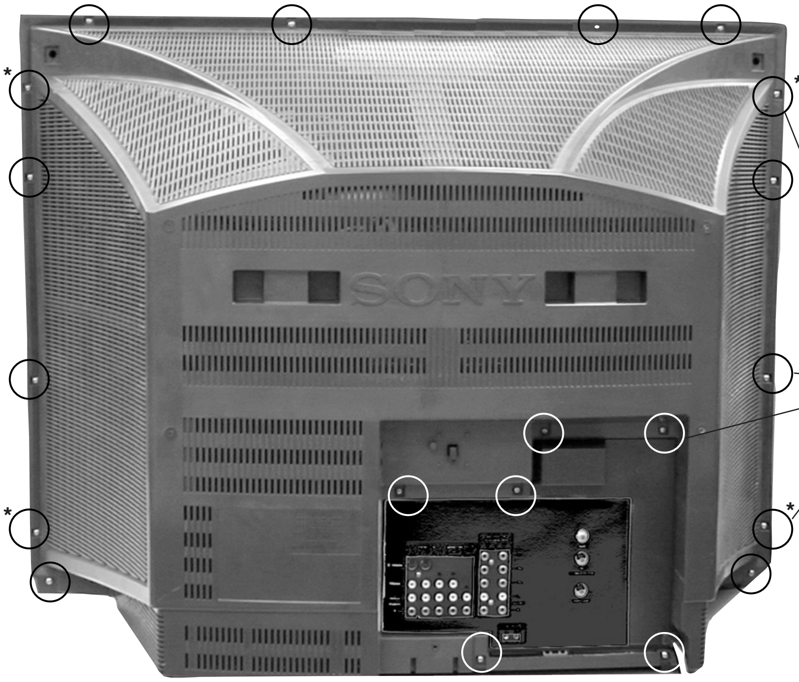
Problem	Possible Remedies
No picture (screen not lit), no sound	❏ If your TV does not turn on, and a red light keeps flashing, your TV may need service. Call your local Sony Service Center. ❏ Make sure the power cord is plugged in. ❏ Push the power button on the front of the TV. ❏ Check to see if the TV / VIDEO setting is correct: when watching TV, set to TV, and when watching connected equipment, set to VIDEO 1, 2, 3, 4, 5 or 6. ❏ Try another channel. It could be station trouble.
Remote control does not operate	❏ Batteries could be weak. Replace the batteries. ❏ Press TV (FUNCTION) when operating your TV. ❏ Make sure the TV's power cord is connected securely to the wall outlet. ❏ Locate the TV at least 3-4 feet away from fluorescent lights. ❏ Check the orientation of the batteries.
Dark, poor or no picture (screen lit), good sound	❏ Adjust the Picture setting in the Video menu (see page 26). ❏ Adjust the Brightness setting in the Video menu (see page 26). ❏ Check antenna / cable connections.
Good picture, no sound	❏ Press MUTING so that "MUTING" disappears from the screen (see page 40). ❏ Make sure Speaker is set to ON in the Audio menu (see page 28).
Cannot receive upper channels (UHF) when using an antenna	❏ Change Cable to OFF (see page 30). ❏ Use Auto Program in the Channel menu to add receivable channels that are not presently in TV memory (see page 30).
No color	❏ Adjust the Color settings in the Video menu (see page 26).
Only snow and noise appear on the screen	❏ Check the antenna / cable connections. ❏ Make sure the channel is broadcasting programs. ❏ Press ANT to change the input mode (see page 40).
Dotted lines or stripes	❏ Adjust the antenna. ❏ Move the TV away from noise sources such as cars, neon signs, or hair-dryers.
TV is fixed to one channel	❏ Use Auto Program in the Channel menu to add receivable channels that are not presently in TV memory (see page 30). ❏ Check your Channel Fix settings (see page 30).
Double images or ghosts	❏ Use a highly directional outdoor antenna or a cable (when the problem is caused by reflections from nearby mountains or tall buildings).
Cannot operate menu	❏ If the item you want to choose appears in gray, you cannot select it.
Cannot receive any channels when using cable TV	❏ Use Auto Program in the Channel menu to add receivable channels that are not presently in TV memory (see page 30). ❏ Check your cable settings. ❏ Make sure Cable is set to ON in the Channel menu (see page 30).

Problem	Possible Remedies
Cannot gain enough volume when using a cable box	❏ Increase the volume of the cable box using the cable box's remote control. Then press TV (FUNCTION) and adjust the TV's volume.
Cannot receive channels	❏ Use Auto Program in the Channel menu to add receivable TV channels that are not presently in TV memory (see page 30).
Unable to select a channel	❏ Use Auto Program in the Channel menu to add receivable TV channels that are not presently in TV memory (see page 30).
Lost password	❏ In the password screen (see page 31), enter the following master password: 4357. The master password clears your previous password; it cannot be used to temporarily unblock channels.

If, after reading these operating instructions, you have additional questions related to the use of your Sony television, please call our Customer Information Services Center at 1-800-222-SONY (7669) (U.S. residents only) or (416) 499-SONY (7669) (Canadian residents only).

SECTION 2
DISASSEMBLY

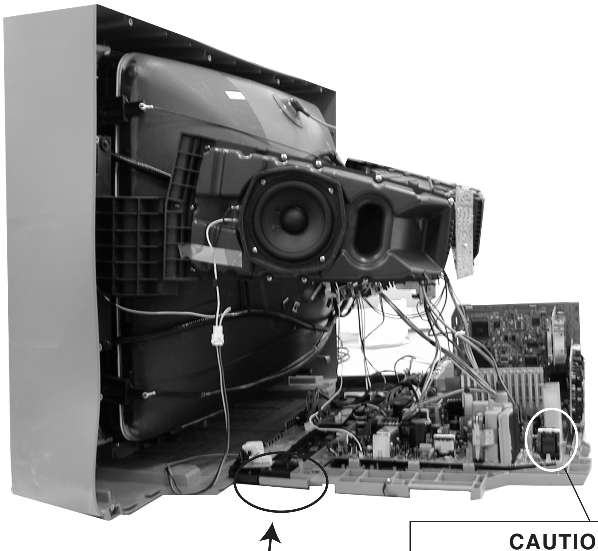
2-1. REAR COVER REMOVAL



Remove +BVTP 4x16 screws from areas indicated with a circle.

* = screws for 36" and 38" models only.

2-2. CHASSIS ASSEMBLY REMOVAL

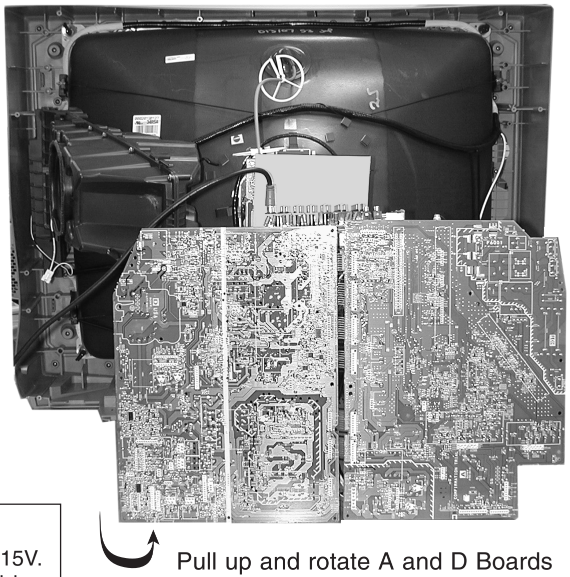


Lift lever up on right and left sides of chassis bracket and pull chassis assembly gently away from bezel.

CAUTION!

Heat sink on IC5004 is -15V. Care must be taken not to allow heat sink to touch any other components.

2-3. SERVICE POSITION

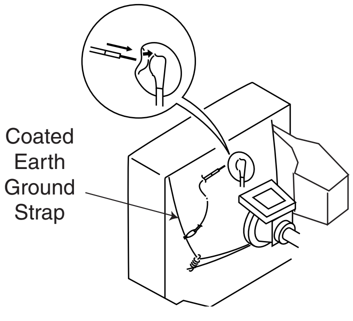


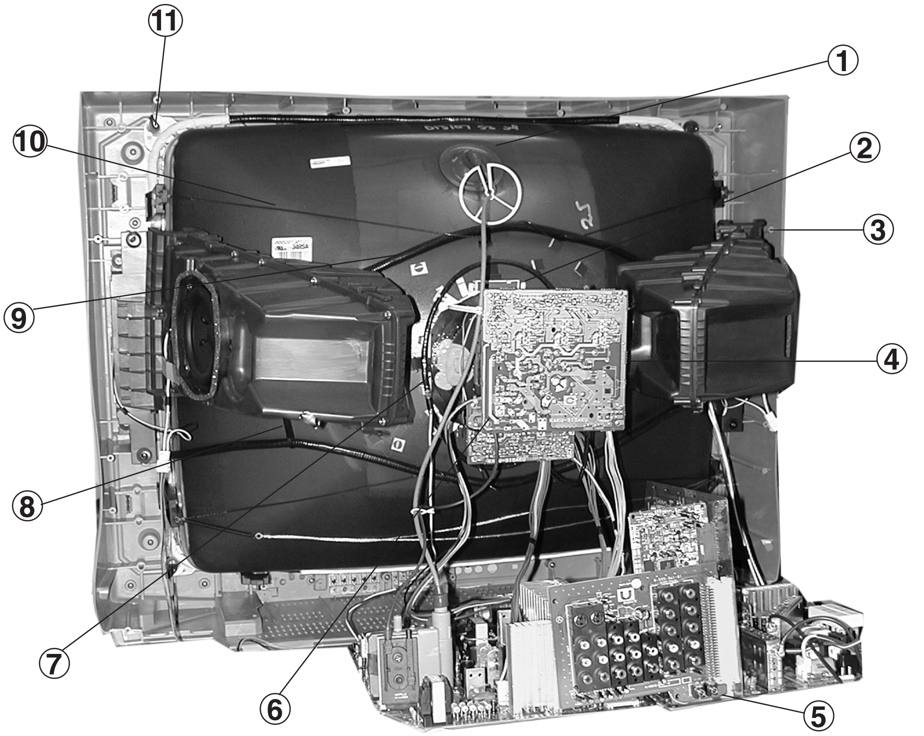
Pull up and rotate A and D Boards to service the set.

2-4. PICTURE TUBE REMOVAL

WARNING:
BEFORE REMOVING
THE ANODE CAP

High voltage remains in the CRT even after the power is disconnected. To avoid electric shock, discharge CRT ***before*** attempting to remove the anode cap. Short between anode and CRT coated earth ground strap.





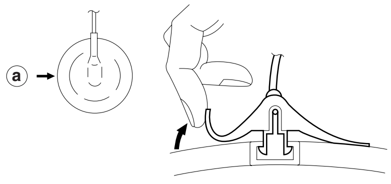
1. Discharge the anode of the CRT and remove the anode cap.
2. Unplug all interconnecting leads from the deflection yoke, neck assembly, degaussing coils and CRT grounding strap.
3. Remove speaker assemblies.
4. Remove the C Board from the CRT.
5. Remove the chassis assembly.
6. Loosen the neck assembly fixing screw and remove.
7. Loosen the deflection yoke fixing screw and remove.
8. Place the set with the CRT face down on a cushion and remove the degaussing coil holders.
9. Remove the degaussing coils.
10. Remove the CRT grounding strap and spring tension devices.
11. Unscrew the four CRT fixing screws [located on each CRT corner] and remove the CRT [Take care not to handle the CRT by the neck].

ANODE CAP REMOVAL

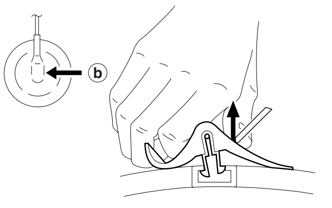
WARNING: High voltage remains in the CRT even after the power is disconnected. To avoid electrical shock, discharge the CRT **before** attempting to remove the anode cap. Short between anode and coated earth ground strap of CRT.

NOTE: After removing the anode, short circuit the anode of the picture tube and the anode cap to either the metal chassis, CRT shield, or carbon painted on the CRT.

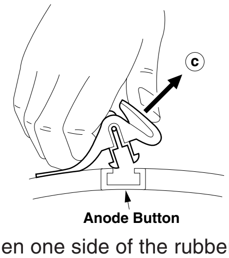
REMOVAL PROCEDURES



① Turn up one side of the rubber cap in the direction indicated by arrow ⓐ.



② Use your thumb to pull the rubber cap firmly in the direction indicated by arrow ⓑ.



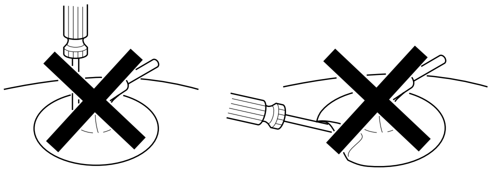
③ When one side of the rubber cap separates from the anode button, the anode cap can be removed by turning the rubber cap and pulling it in the direction of arrow ⓒ.

HOW TO HANDLE AN ANODE CAP

① Do not use sharp objects which may cause damage to the surface of the anode cap.

② To avoid damaging the anode cap, do not squeeze the rubber covering too hard. A material fitting called a shatter-hook terminal is built into the rubber.

③ Do not force turn the foot of the rubber cover. This may cause the shatter-hook terminal to protrude and damage the rubber.



SECTION 3
SET-UP ADJUSTMENTS

The following adjustments should be made when a complete realignment is required or when a new picture tube is installed.

These adjustments should be performed with rated power supply voltage unless otherwise noted.

Set the controls as follows unless otherwise noted:

VIDEO MODE: STANDARD (RESET)

Perform the adjustments in order as follows:

1. Beam Landing
2. Convergence
3. Focus
4. Screen (G2)
5. White Balance

Note: Test equipment required:

- Color Bar Pattern Generator
- Degausser
- DC Power Supply
- Digital Multimeter

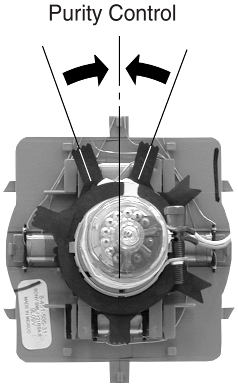
3-1. BEAM LANDING

Before beginning adjustment procedure:

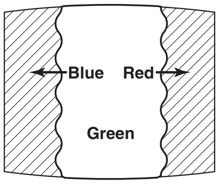
- Face the picture tube in East or West direction to reduce the influence of geomagnetism.

NOTE: Do not use hand degausser because it magnetizes CRT.

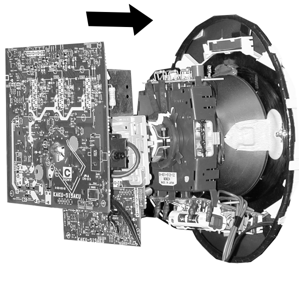
1. Input white pattern from pattern generator. Set the PICTURE control to maximum and BRIGHTNESS control to standard.
2. Perform Focus, G2 and White Balance adjustments.
3. Loosen the deflection yoke mounting screw and set the purity control to the center as shown below.


Purity Control

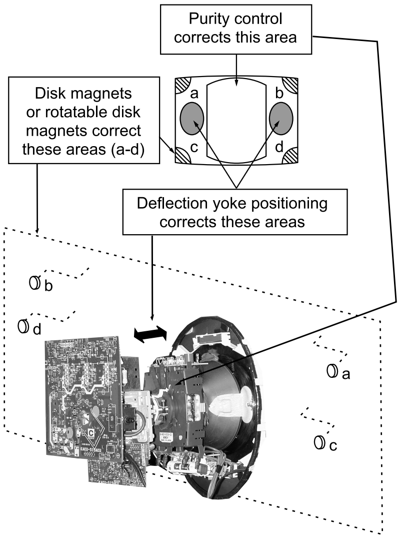
4. Input a green pattern from the pattern generator.
5. Move the deflection yoke backwards and adjust the purity control so that green is in the center and red and blue are even on both sides.


Blue
Red
Green

6. Move the deflection yoke forward and adjust so that the entire screen becomes green.



7. Switch over the raster signal to red and blue and confirm the condition.
8. When the position of the deflection yoke is determined, tighten it with the deflection yoke mounting screw.
9. If landing at the corner is not right, adjust by using the disk magnets.


Purity control corrects this area
Disk magnets or rotatable disk magnets correct these areas (a-d)
a
b
c
d
Deflection yoke positioning corrects these areas
b
d
a
c

3-2. V-PIN and V-CEN ADJUSTMENT

Before beginning adjustment procedure:

- Input a cross hatch pattern signal.
- Face the picture tube in North/South direction and correct rotation.
- Video Mode: Standard (Reset)

1. Adjust service mode CXA2150D-1 04 VCEN so that top pin and bottom pin are symmetrical from top to bottom.
2. Adjust service mode CXA2150D-1 05 VPIN so top and bottom pin are symmetrical from top to bottom.
3. Lines should be straight from left to right. Check landing for side effect.

3-3. CONVERGENCE ADJUSTMENT

Before starting convergence adjustments:

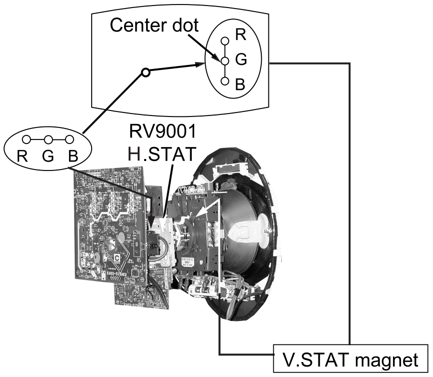
- Set CONTRAST AND BRIGHTNESS control to 50%.
- Input dot pattern signal.

Vertical and Horizontal Static Convergence

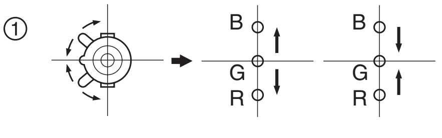
1. Disconnect dynamic convergence before adjusting static convergence (CN5510), except for minor touch-up.

2. Adjust H.STAT convergence, RV 9001, to converge red, green and blue dots in the center of the screen.

3. Adjust V.STAT magnet to converge red, green and blue dots in the center of the screen.


Center dot
R
G
B
R G B
RV9001
H.STAT
V.STAT magnet

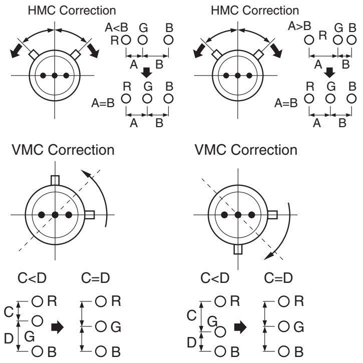
4. Tilt the V.STAT magnet and adjust static convergence to open or close the V.STAT magnet.



Operation of BMC (Hexapole) Magnet

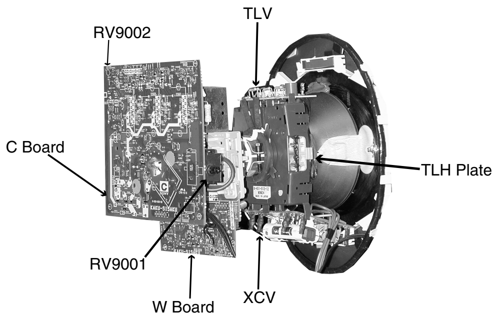
The respective dot positions resulting from moving each magnet interact, so perform the following adjustment while tracking.

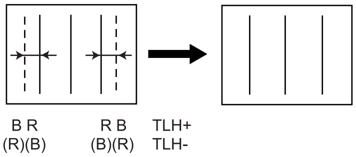
Use the V.STAT tabs to adjust the red, green, and blue dots so they line up at the center of the screen (move the dots in a horizontal direction.)


HMC Correction
A<B
R G B
A B
R G B
A=B
A B
HMC Correction
A>B
R G B
A B
R G B
A=B
A B
VMC Correction
VMC Correction
C<D
C=D
C
D
R
G
B
R
G
B
C<D
C=D
C
D
R
G
B
R
G
B

TLH Plate Adjustment

- Input crosshatch pattern.
- Adjust unbalanced horizontal convergence of red and blue dots by adjusting TLH plate on the deflection yoke.


TLV
RV9002
C Board
TLH Plate
RV9001
W Board
XCV


B R
(R)(B)
R B
(B)(R)
TLH+
TLH-

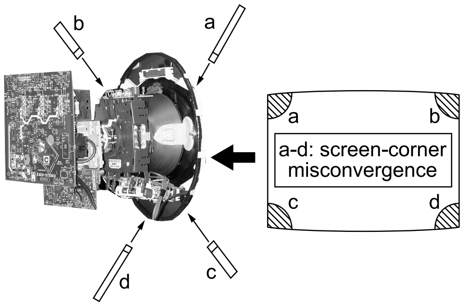
1. Adjust XCV core to balance X axis.
2. Adjust vertical red and blue convergence with V.TILT (TLV VR).

Note: Perform adjustments while tracking item 1.

Screen-Corner Convergence

- Input crosshatch pattern.

1. Affix a permalloy assembly corresponding to the misconverged areas.



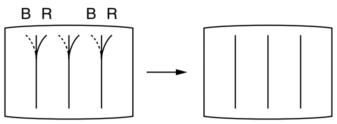
Dynamic Convergence Adjustments

Set dynamic convergence using the following service mode adjustment data:

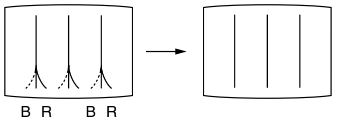
CXA 8070 AP

NO.	Register	Function	Data Length	Initial Data
1	YBWU	VCA9	0-63	31
2	YBWL	VCA10	0-63	31
3	RSAP	DC-AMP1	0-63	31
4	RUBW	VCA5	0-63	31
5	RLBW	VCA6	0-63	31
6	LSAP	DC-AMP2	0-63	31
7	LUBW	VCA10	0-63	31
8	LLBW	VCA2	0-63	31

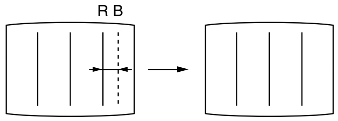
1. YBWU (UPPER Y-BOW)



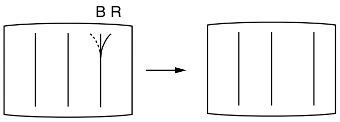
2. YBWL (BOTTOM BOW)



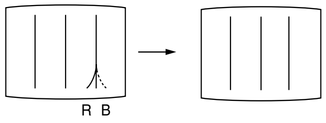
3. RSAP (RIGHT AMP)



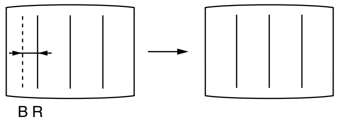
4. RUBW (RIGHT SIDE UPPER C-BOW)



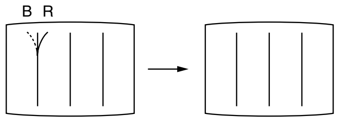
5. RLBW (RIGHT SIDE BOTTOM C-BOW)



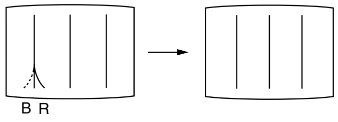
6. LSAP (LEFT AMP)



7. LUBW (LEFT SIDE UPPER C-BOW)

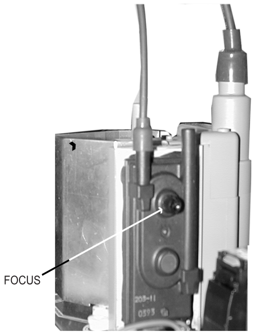


8. LLBW (LEFT SIDE BOTTOM C-BOW)



3-4. FOCUS ADJUSTMENT

1. Input Monoscope signal.
2. Set VIDEO MODE: Standard (RESET).
3. Adjust focus VR counter-clockwise to confirm the dot's shape is centered.
4. Confirm center focus with focus VR.



3-5. SCREEN (G2)

1. Input a monoscope pattern. (NTSC)
2. Set to service mode and adjust as follows:

CXA 2150P-2

No.	Disp.	Item	Avg.
00	ALBK	ALL_BLK	0

3. Adjust RV9002 on the C Board so that voltage on red, green and blue cathodes is 170.0 ±0.5V DC.
4. Adjust horizontal line at top of screen so it is cutoff.

Note: Never set ALBK to 1 when external power supply is connected to cathode.

3-6. PICTURE QUALITY ADJUSTMENT

Initial set-up condition

1. Set PRO MODE (Picture : MAX, GAMMA :0)
2. Dynamic-color: Off (=Trinitone: MID).
3. Set the service mode to the following:

C2150P-4

No.	Name	Control Function	Avg. Data
06	UDCL	Dynamic Color: OFF	0
08	UGRAM	GRAMMA	0
15	DCTR	DC-TRAN	0
16	DPIC	DYNAMIC PIC:OFF	0

4. Input Signal (480i):

Color Bar Video 75 IRE (White) 75% modulation 7.5% Set-up

Color Bar RF 75 IRE (White) 75% modulation 7.5% Set-up

3-6-1. VIDEO INPUT -Two Picture Sub Contrast Adjustment

1. Input a Color Bar signal to VIDEO 1 (75 IRE 75%).
2. Set picture mode: P&P (PRO MODE).
3. Set to service mode and adjust as follows:

2150P-4

No.	Name	Control Function	Avg. Data
00	UPIC	PICTURE	63
02	UCOL	COLOR	0

2150P-2

No.	Name	Control Function	Avg. Data
01	RGBS	R ON	4

INITIAL DATA (IMPORTANT)

2150P-4

No.	Name	Control Function	Avg. Data
23	SCON	SUB-CONT	9

2103-1

No.	Name	Control Function	Avg. Data
00	YLEV	Y-OUT	23

2103-2

No.	Name	Control Function	Avg. Data
00	YLEV	Y-OUT	23

4. Connect oscilloscope to Pin 1 of CN9001 (R. DRV) on C Board.
5. Adjust MAIN (left) side contrast according to service mode for SCON.

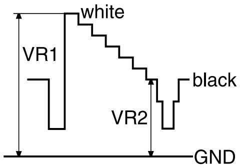
2103-1

No.	Name	Control Function
02	SCON	SUB-CONT

6. Adjust SUB (right) side contrast according to service mode for SCON.

2103-2

No.	Name	Control Function
02	SCON	SUB-CONT



32”: VR1-VR2 = ΔVR = 1.92 ±0.05 Vp-p

36”/ 38”: VR1-VR2 = ΔVR = 2.0 ±0.05 Vp-p

7. Write data from 5 and 6 above into memory.

3-6-2. VIDEO INPUT - Sub Hue/Sub Color Adjustment

1. Input a Color Bar signal to VIDEO 1 (75 IRE 75%).
2. Set picture mode: P&P (PRO MODE).
3. Set to service mode and adjust as follows:

2150P-4

No.	Name	Control Function	Avg. Data
00	UPIC	PICTURE	63
02	UCOL	COLOR	31

2150P-2

No.	Name	Control Function	Avg. Data
01	RGBS	R ON	7

4. Connect oscilloscope to Pin 5 of CN9001 (B. DRV) on C Board.
5. Adjust MAIN (left) side color according to service mode for SCOL.
6. Adjust MAIN (left) side color according to service mode for SHUE.

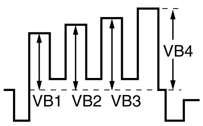
2103-1

No.	Name	Control Function
03	SCOL	SUB-COL
04	SHUE	SUB-HUE

7. Adjust SUB (right) side color according to service mode for SCOL.
8. Adjust SUB (right) side color according to service mode for SHUE.

2103-2

No.	Name	Control Function
03	SCOL	SUB-COL
04	SHUE	SUB-HUE



COLOR: VB1≤VB4 (=VB1 + 0~90mV)
HUE: VB2≤VB3 (=VB2 + 0~90mV)
(HUE: Adjust data - 2 step)

9. Write data into memory.

3-6-3. RF INPUT Two Picture Sub Contrast Adjustment

1. Input a Color Bar signal to RF (75 IRE 75%).
2. Set picture mode: P&P. (PRO MODE)
3. Set to service mode and adjust as follows:

2150P-4

No.	Name	Control Function	Avg. Data
00	UPIC	PICTURE	63
02	UCOL	COLOR	0

2150P-2

No.	Name	Control Function	Avg. Data
01	RGBS	R ON	4

INITIAL DATA (IMPORTANT)

2150P-4

No.	Name	Control Function	Avg. Data
23	SCON	SUB-CONT	9

2103-1

No.	Name	Control Function	Avg. Data
00	YLEV	Y-OUT	23

2103-2

No.	Name	Control Function	Avg. Data
00	YLEV	Y-OUT	23

Note: Use the same average data as 3-6-1 items 5 and 6 after the adjustment.

4. Connect oscilloscope to Pin 1 of CN9001 (R. DRV) on C Board.

5. Adjust MAIN (left) side contrast according to service mode for SCON.

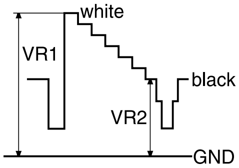
2103-1

No.	Name	Control Function
02	SCON	SUB CONT

6. Adjust SUB (right) side contrast according to service mode for SCON.

2103-2

No.	Name	Control Function
02	SCON	SUB CONT



32”: VR1-VR2 = ∆VR = 1.92 ±0.05Vp-p

36”/38”: VR1-VR2 = ∆VR = 2.0 ±0.05Vp-p

7. Write data from 5 and 6 above into memory.

3-6-4. RF INPUT-Sub Hue/Sub Color Adjustment

1. Input a Color Bar signal to RF (75 IRE 75%).
2. Set picture mode: P&P (PRO MODE).
3. Set to service mode and adjust as follows:

2150P-4

No.	Name	Control Function	Avg. Data
00	UPIC	PICTURE	63
02	UCOL	COLOR	31

2150P-2

No.	Name	Control Function	Avg. Data
01	RGBS	R ON	7

INITIAL DATA (IMPORTANT)

2150P-4

No.	Name	Control Function	Avg. Data
24	CLOF	OFFSET for UCOL	8
25	HUOF	OFFSET for UHUE	4

2103-1

No.	Name	Control Function	Avg. Data
01	CLEV	CB & CR-OUT	17
20	CBOF	CB- OFFSET	31
21	CROF	CR-OFFSET	31

2103-2

No.	Name	Control Function	Avg. Data
01	CLEV	CB & CR-OUT	17
20	CBOF	CB- OFFSET	31
21	CROF	CR-OFFSET	31

Note: Use the same average data as 3-6-2 items 5,6,7,8 after the adjustment.

4. Connect oscilloscope to Pin 5 of CN9001 (B. DRV) on C Board.
5. Adjust MAIN (left) side color according to service mode for SCOL.
6. Adjust MAIN (left) side color according to service mode for SHUE.

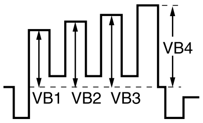
2103-1

No.	Name	Control Function
03	SCOL	SUB COLOR
04	SHUE	SUB HUE

7. Adjust SUB (right) side color according to service mode for SCOL.
8. Adjust SUB (right) side color according to service mode for SHUE.

2103-2

No.	Name	Control Function
03	SCOL	SUB COLOR
04	SHUE	SUB HUE



COLOR: VB1 ≤VB4 (=VB1 + 0~90mV)

HUE: VB2 ≤ VB3 (=VB2 + 0~90mV)

(HUE: Adjust data - 2 step)

8. Write data into memory.

3.7 WHITE BALANCE (CRT) AND SUB BRIGHT ADJUSTMENT

White Balance

1. Input an all white 480I (15.734KHz) signal into the VIDEO 1 input terminal to perform the white balance (highlight, cut-off) adjustments. The parameters to adjust are in the CXA2150P in service mode.
2. Set the following:

Picture:	Full Mode Pro Mode
Color:	Center

3. Adjust white balance in the service mode and set the following data:

2150P-1

No.	Name	Control Function	Avg. Data
05	RDRV	R-DRIVE	Fix: 41
06	GDRV	G-DRIVE	Adjust
07	BDRV	B-DRIVE	Adjust
08	RCUT	R-CUT OFF	Fix: 41
09	GCUT	G-CUT OFF	Adjust
10	BCUT	B-CUT-OFF	Adjust

4. Adjust sub-brightness: Input an all black signal (to IRE 7.5% set up) 480i (15.75KHz) signal into the VIDEO 1 input terminal and adjust the following parameter of the CXA2150P-1.

CXA2150P-1

No.	Name	Control Function	Avg. Data
04	SBRT	SUB-BRIGHT	Adjust

5. Check **INITIAL DATA (Important)**

2150P-1

No.	Name	Control Function	Avg. Data
00	SBOT	SUB-BRT OFFSET	7
12	SBOF	SUB-BRT OFFSET	63

6. Repeat steps 3 to 5.

3-8. RASTER CENTER ADJUSTMENT

1. Input a monoscope signal.
2. Set to NTSC (DRC) mode.
3. Enter service mode and set the following:

CXA2150P-2

No.	Name	Control Function	Avg. Data
06	AGNG	AGING1, AGING2	2

CXA2150D-2

No.	Name	Control Function	Avg. Data
02	HSIZ	Horiz Size	31

CXA2150D-3

No.	Name	Control Function	Avg. Data
00	HBLK	Blanking enable	0

4. Reduce HSIZ to see sides of raster.
5. Adjust H-Center with CXA2150D-2 00.
6. Adjust the best screen position with H-CENT and write data.
7. Restore aging, HSIZ and HBLK to original condition.

3-9. PICTURE DISTORTION ADJUSTMENTS

3-9-1. NTSC (DRC) Full mode adjustment

1. Face picture tube to east or west direction.
2. Complete VPIN and VCEN adjustment first. (A2150-D1 05 VPIN, A2150-D1 04 VCEN)
3. Input a monoscope and a cross-hatch signal. Adjust picture distortion with the following service parameters to balance the best condition for these two signals.

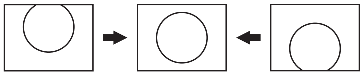
A2150-D1	00	VPOS
A2150-D1	01	VSIZ
A2150-D1	02	VLIN
A2150-D1	03	VSCO
A2150-D1	04	VCEN
A2150-D1	05	VPIN
A2150-D1	07	HTPZ
A2150-D2	01	HPOS
A2150-D2	02	HSIZ
A2150-D2	03	SLIN
A2150-D2	05	PIN
A2150-D2	06	UCP
A2150-D2	07	LCP
A2150-D2	13	PPHA
A2150-D2	14	VANG
A2150-D2	15	LANG
A2150-D2	16	VBOW
A2150-D2	17	LBOW

Make sure picture size is within specs. Vertical size is 11.8 sq. and Horizontal size is 15.8 sq.

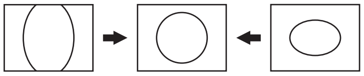
4. Write data into memory then set screen to 1080i Mode.

CXA2150D-1

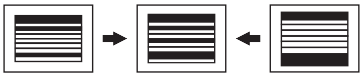
0. VPOS (V-POSITION)



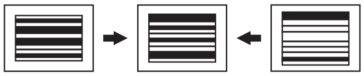
1. VSIZ (V-SIZE)



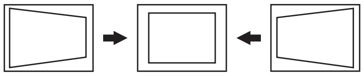
2. VLIN (V-LINE)



3. VSCO (VS-COR)

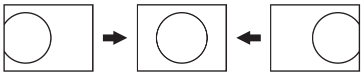


7. HTPZ (H-TRAPEZOID)

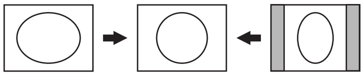


CXA2150D-2

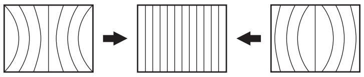
1. HPOS (H-POSITION)



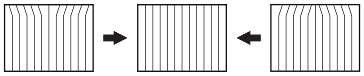
2. HSIZ (H-SIZE)



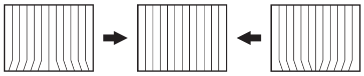
5. PIN (PIN AMP)



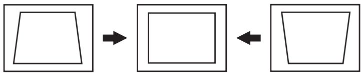
6. UCP (UP COR PIN COR)



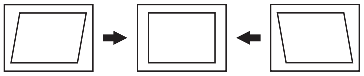
7. LCP (LOW CO PIN COR)



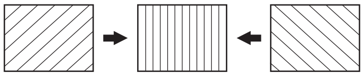
13. PPHA(PIN PHASE)



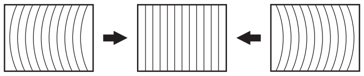
14. VANG (AFC-ANGLE)



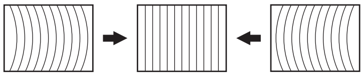
15. LANG (L-ANGLE)



16. VBOW (AFC-BOW)



17. LBOW (L-BOW)



3-9-2. 1080i HD mode adjustment

1. Input a 1080i HD cross-hatch signal and an HD monoscope signal that contains overscan markers.
2. Adjust raster position per section 3-8 only if this procedure was not performed for full mode.
3. Adjust geometry similar to Full DRC mode. Vertical size is 11.8 sq. and Horizontal size is 15.8 sq if monoscope signal is available. Otherwise use Vertical size as 91.5% scan, Horizontal size as 90% scan.
4. Use the following register to adjust the horizontal parameter:

A2150-D2 01 HPOS

If necessary, touch up geometry using the data register listed above for Full mode.

5. Write data into memory.

3-9-3. Vertical Compressed Mode Check and Confirmation

1. Input a monoscope and a cross-hatch signal.
2. Check vertical compressed mode.

SECTION 4
SAFETY RELATED ADJUSTMENTS

⧓ RV8001, RV8002, RV8003 CONFIRMATION METHOD AND HV SERVICE ADJUSTMENTS

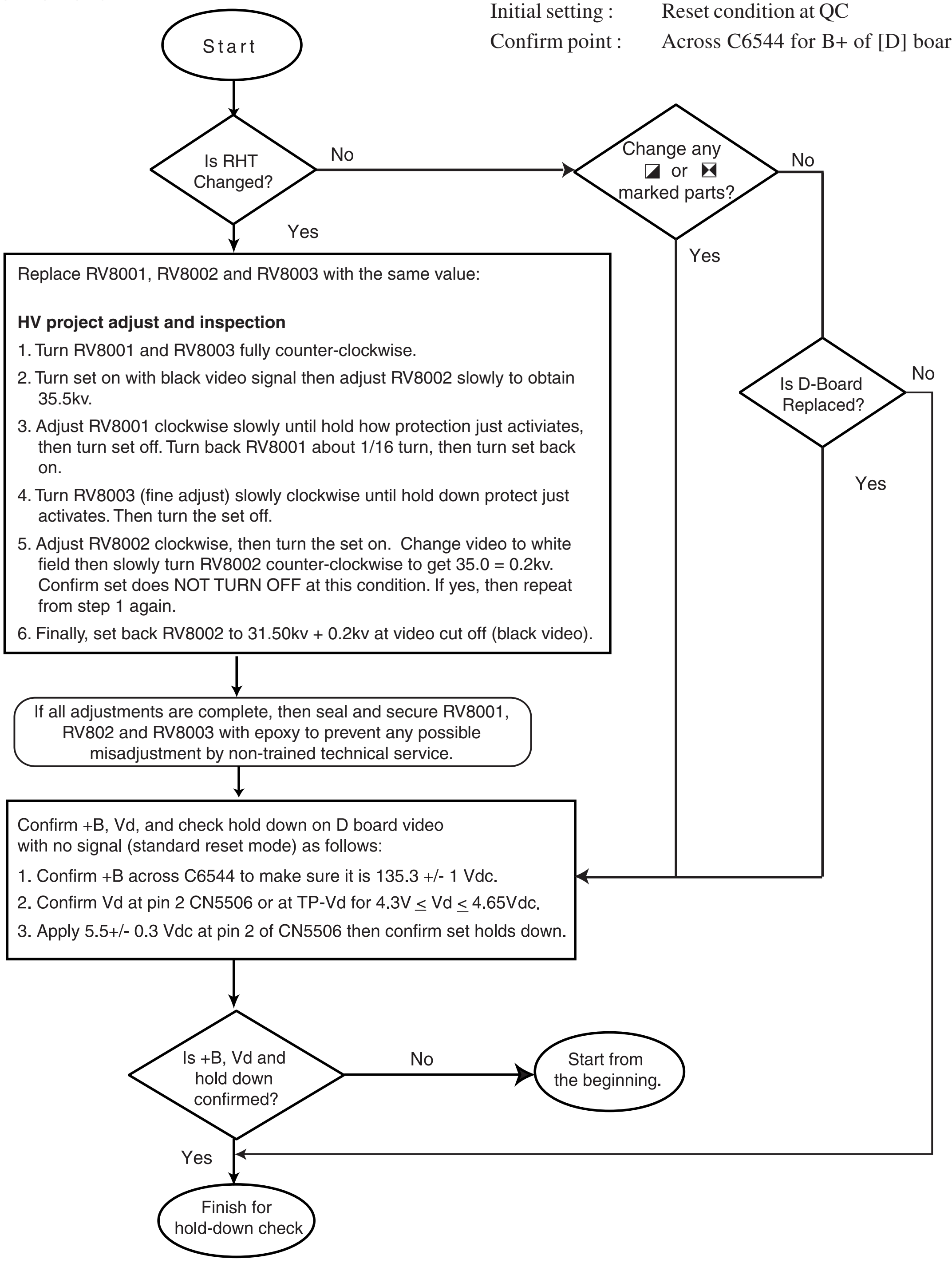
B+ Max Confirmation: Standard: 135.3 ± 1 VCD

Check Condition: AC input voltage : 120 (± 2) VAC at Board Adjustment Process
130 (± 2) VAC at QC
120 (± 2) VAC at Overall Adjustment (After aging)

*Note: If using stabilized power supply, make sure the distortion factor is 3% or less.

Setting Mode:	Full mode
Signal input :	Cross hatch of NTSC at QC
Initial setting :	Reset condition at QC
Confirm point :	Across C6544 for B+ of [D] board.

HV Service Flowchart


Start
Is RHT Changed?
No
Yes
Change any ◪ or ⧓ marked parts?
No
Yes
Is D-Board Replaced?
No
Yes
Is +B, Vd and hold down confirmed?
No
Start from the beginning.
Yes
Finish for hold-down check

Replace RV8001, RV8002 and RV8003 with the same value:

HV project adjust and inspection

1. Turn RV8001 and RV8003 fully counter-clockwise.
2. Turn set on with black video signal then adjust RV8002 slowly to obtain 35.5kv.
3. Adjust RV8001 clockwise slowly until hold how protection just activiates, then turn set off. Turn back RV8001 about 1/16 turn, then turn set back on.
4. Turn RV8003 (fine adjust) slowly clockwise until hold down protect just activates. Then turn the set off.
5. Adjust RV8002 clockwise, then turn the set on. Change video to white field then slowly turn RV8002 counter-clockwise to get 35.0 = 0.2kv. Confirm set does NOT TURN OFF at this condition. If yes, then repeat from step 1 again.
6. Finally, set back RV8002 to 31.50kv + 0.2kv at video cut off (black video).

If all adjustments are complete, then seal and secure RV8001, RV802 and RV8003 with epoxy to prevent any possible misadjustment by non-trained technical service.

Confirm +B, Vd, and check hold down on D board video with no signal (standard reset mode) as follows:

1. Confirm +B across C6544 to make sure it is 135.3 +/- 1 Vdc.
2. Confirm Vd at pin 2 CN5506 or at TP-Vd for 4.3V $\leq$ Vd $\leq$ 4.65Vdc.
3. Apply 5.5+/- 0.3 Vdc at pin 2 of CN5506 then confirm set holds down.

SECTION 5
CIRCUIT ADJUSTMENTS

ELECTRICAL ADJUSTMENTS BY REMOTE COMMANDER

Use the Remote Commander (RM-Y74) to perform the circuit adjustments in this section.

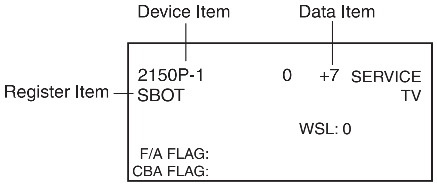
NOTE: Test Equipment Required:
1) Pattern generator
2) Frequency counter
3) Digital multimeter
4) Audio oscillator

5-1. SETTING THE SERVICE ADJUSTMENT MODE

1. Standby mode (power off).
2. Press each of the following buttons on the remote within a second of each other:

Display → Channel 5 → Sound volume + → Power

SERVICE ADJUSTMENT MODE VIEW


Device Item
Data Item
Register Item
2150P-1
SBOT
0
+7
SERVICE
TV
WSL: 0
F/A FLAG:
CBA FLAG:

Reading the Memory

1. Enter into Service Mode
2. Press 0 on the remote commander.
3. Press ENTER to read memory.

Adjusting the Picture

1. Enter into Service Mode.
2. Press 2 or 5 on the remote to select the device item.
2. Press 1 or 4 on the remote to select an item.
3. Press 3 or 6 on the remote to change the data.
4. Press MUTING then ENTER to save into the memory.

RESETTING THE DATA

Note: Be careful when using the remote! It will clear and reinitialize ALL NVM data including deflection adjustment data if not reset properly as follows:

Resetting the Deflection NVM Data

1. Enter into Service Mode.
2. Press 7, MENU, and then press Enter on the remote.

Resetting the System NVM Data

1. Enter into Service Mode.
2. Press 7, then 9, and then press Enter on the remote.

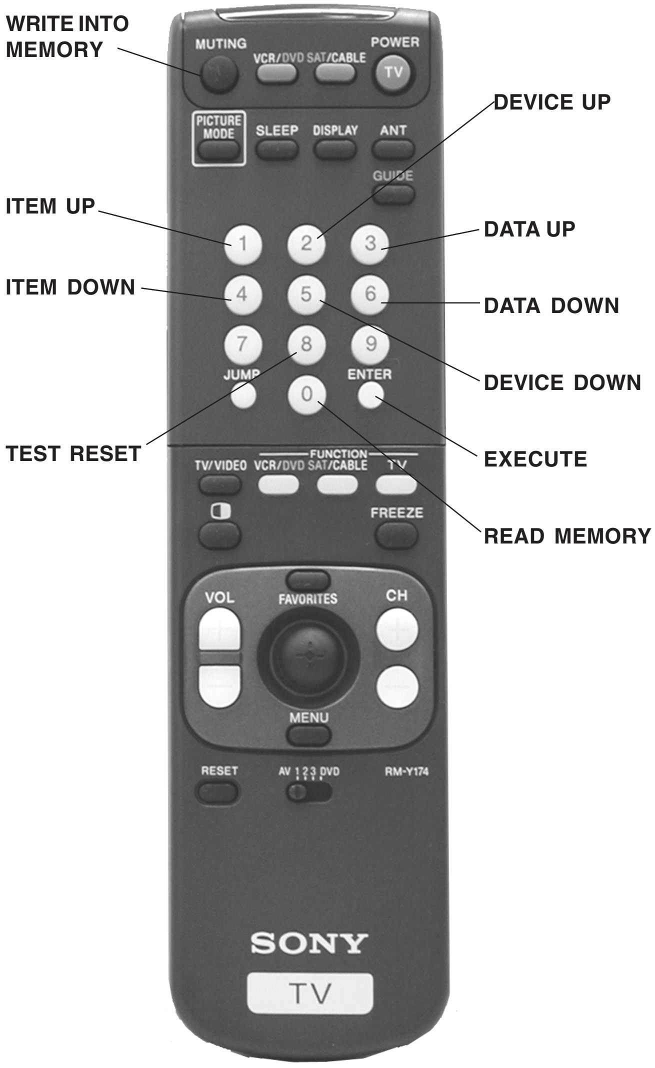
Resetting the User Data

1. Enter into Service Mode.
2. Press 8, and then press Enter on the remote.

5-2. MEMORY WRITE CONFIRMATION METHOD

1. After adjustment, remove the power plug from the AC outlet, then plug it in again.
2. Turn the power switch ON and set to service mode.
3. Call the adjusted items again to confirm they were adjusted properly.

5-3. ADJUSTMENT BUTTONS AND INDICATORS


WRITE INTO MEMORY
DEVICE UP
ITEM UP
DATA UP
ITEM DOWN
DATA DOWN
DEVICE DOWN
TEST RESET
EXECUTE
READ MEMORY
MUTING
VCR/DVD
SAT/CABLE
POWER
TV
PICTURE MODE
SLEEP
DISPLAY
ANT
GUIDE
1
2
3
4
5
6
7
8
9
JUMP
ENTER
0
TV/VIDEO
FUNCTION
FREEZE
VOL
FAVORITES
CH
MENU
RESET
AV 1 2 3 DVD
RM-Y174
SONY
TV

RM-Y174

5-4. SERVICE DATA LISTS

DX1A Service List ------ Contents & Notes

Category Number & Name		Device Name	Device Reference Number	Slave Address	Comment
# 1	**3D-COMB**	µPD64082	IC3501 / BC-board	B8h (W) & B9h (R)	W&R: Write & Read
# 2-1	**CXA2103-1 (Main)**	CXA2103Q	IC3048 (Main) / B-board	9Ah	
# 2-2	**CXA2103-2 (Sub)**		IC3110 (Sub) / B-board	9Eh	
# 3-1	**CXA2150P-1**	CXA2150Q	IC201 / A-board	86h	
# 3-2	**CXA2150P-2**				
# 3-3	**CXA2150P-3**				
# 3-4	**CXA2150P-4**				
# 4-1	**CXA2150D-1**	CXA2150Q	IC201 / A-board	86h	
# 4-2	**CXA2150D-2**				
# 4-3	**CXA2150D-3**				
# 5	**CXA2151**	CXA2151Q	IC3001 / B-board	84h	
# 6	**D-CONV**	CXA8070P	IC5513 / D-board	DEh	
# 7	**CXA2026**	CXA2026AS	IC5511 / D-board	8Eh	
# 8	**AP**	BH3868FS	IC7001 / A-board	82h	
# 9	**TRUS**	NJM2180M	IC4101 / S-board	2Eh	Controlled through CXA1315M (IC4103 / S-board / 48h)
# 10	**MID1**	CXD9509AQ	IC3408 / B-board	2Eh	Controlled through MID-XA Micro (IC3090 / B-board /
# 11	**MID2**	CXD9509AQ	IC3408 / B-board	2Eh	Controlled through MID-XA Micro (IC3090 / B-board /
# 12	**MID3**	CXD9509AQ	IC3408 / B-board	2Eh	Controlled through MID-XA Micro (IC3090 / B-board /
# 13	**MID5**	CXD9509AQ	IC3408 / B-board	2Eh	Controlled through MID-XA Micro (IC3090 / B-board /
# 14	**OSD**	M306V2ME-150or151FP	IC701 / A-board	60h	System Micro {V1.0 with Patch-B or V2.0 with Patch-A}
# 15	**SNNR**	µPD64082	IC3501 / BC-board	B8h (W) & B9h (R)	
		CXA2103Q	IC3048 (Main) / B-board	9Ah	
		CXA2150Q	IC201 / A-board	86h	
# 16	**ID1**	CXD2085M	IC3603 / B-board	40h	
# 17	**CCD&VCHIP**	CXP85840A-039Q	IC3602 (Main) / B-board	68h (Main)	CCD&Vchip Micro (V2.14)
			IC3601 (Sub) / B-board	6Ch (Sub)	
# 18	**OP**	M306V2ME-150or151FP	IC701 / A-board	60h	System Micro {V1.0 with Patch-B or V2.0 with Patch-A}
# 19	**ID**	M306V2ME-150or151FP	IC701 / A-board	60h	System Micro {V1.0 with Patch-B or V2.0 with Patch-A}

DX1A System Micro & Notes for Services	M306V2ME-150FP (MASK), Software Version 1.0 with ROM correction Patch-B, IC701/A-board (Slave Adress: 60h)
	M306V2ME-151FP (MASK), Software Version 2.0 with ROM correction Patch-A, IC701/A-board (Slave Adress: 60h)
	V1.0-micro/A-board works with V1.0/Patch-B/D-board: GOOD (Designed V1.0 micro-based sets, No LED-flashing for Self Diagnostics)
	The system micro name, software&patch versions, and the status of NVM devices are displayed only when in the service catergory (#19): ID.
DX1A MID-XA Micro	MB94918RPF-G-128-BND (MASK), Software Version 03/30/00, IC3090/B-board (Slave Address: 64h)
	MB94918RPF-G-130-BND (MASK), Software Version 04/20/00, IC3090/B-board (Slave Address: 64h)
DX1A CCD&Vchip Micros	CXP85840A-039Q (MASK), Software Version 2.14, IC3602/B-board (Main/Slave Address: 68h) & IC3601/B-board (Sub/Slave Address: 6Ch)

DX1A SERVICE LIST (#1): 3D-COMB / µPD64082 (Part-1/2)

Device Name: µPD64082GF { 3D-Comb Filter / NEC } / IC3501 (BC-board) / P/N: 8-759-594-44 (SB#: V7372)
Slave Address: B8h (Write Address) / B9h (Read Address)

Register No & Name		Control Register Function & Link	Data Type	Data Range	Data Initial/Average Setting (32V&36V CRTs)							Comment
					UHF/VHF & CVideo		SVideo					CVideo (CV): CVideo1~4 inputs SVideo (SV): SVideo1~3 inputs C: Common data
					Standard	Non-standard	Standard	Non-standard				
0	NRMD	Operation mode setting		0~3	0	1	3	3				
1	YAPS	Y-output correction (V-aperture compensation & Y-peaking filtering)	C	0~3	3							
2	CLKS	System clock setting	C	0~3	1							
					UHF/VHF & CVideo		SVideo					
					Standard	Non-standard	Standard	Non-standard				
3	NSDS	Selection for standard/non-satndard signal processing		0~3	0	0	0	0				
4	MSS	Selection for inter-frame/inter-line processing	C	0~3	0							
5	KILS	Killer processing selection	C	0~3	1							
6	CDL	C-signal phase with respect to the Y-signal (Fine adjustment at 70 ns/step)	C	0~7	3							
		NRMD Setting-based Control Table for DYCO, DYGA, DCCO, DCGA			NRMD = 0	NRMD = 1	NRMD = 2	NRMD = 3				
7	DYCO	DY detection coring level (Y motion detection coring)		0~15	2	2	2	2				
8	DYGA	DY detection gain (Y motion detection gain)		0~15	10	10	10	10				
9	DCCO	DC detection coring level (C motion detection coring)		0~15	5	5	5	5				
10	DCGA	DC detection gain (C motion detection gain)		0~15	5	5	5	5				
11	YNRL	Frame recersive YNR nonlinear filter limit level	C	0~3	1							
12	CNRL	Frame recersive CNR nonlinear filter limit level	C	0~3	1							
					UHF/VHF	Video1~4	Video5&6	Video1~4: CVideo1~4 & SVideo1~3 inputs Video5&6: YPbPr-480i/480p/1080i inputs				
13	VTRH	Hysteresis for Hsync non-standard signal detection (out-of-Hsync intra-field)		0~3	1	1	1					
14	VTRR	Sensitivity for Hsync non-standard signal detection (out-of-Hsync intra-field)		0~3	1	1	1					
15	LDSR	Sensitivity for frame non-standard signal detection (out-of-Hsync inter-frame)		0~3	2	2	2					
		VM&SNNR Setting-based Control Table for VAPG & VAPI VAPG= VAPG1 - VAPG2			VAPG1 Data Based on MENU/VM Setting				VAPG2 Data Based on SNNR/Offset-setting			
					VM = Off	VM = Low	VM = Mid	VM = High	SNNR = 0	SNNR = 1	SNNR = 2	SNNR = 3
16	VAPG	V-aperture compensation gain		0~7	0	2	3	4	0	0	0	0
17	VAPI	V-aperture compensation convergence point		0~31	4	4	4	4 (32V) or 8 (36V) {Initial/CBA Data = 8}				
		SNNR Setting-based Control Table for YPFT & YHFG				SNNR Setting (-Offset)						
						SNNR = 0	SNNR = 1	SNNR = 2				SNNR = 3
18	YPFT	Y peaking filter (BPF) center frequency		0~3	0	0	0	0				0
19	YPFG	Y peaking filter (BPF) gain		0~15	7	0	1	2				3

Note:

DX1A SERVICE LIST (#1): 3D-COMB / µPD64082 (Part-2/2)

Register No. & Name		Control Register Function & Link	Data Type	Data Range	Data Initial/Average Setting (32V&36V CRTs)							Comment
		SNNR Setting-based Control Table for YHCO & YHCG			**SNNR = 0**	**SNNR = 1**	**SNNR = 2**	**SNNR = 3**				(Not SNNR Offset Data)
20	**YHCO**	Y output high frequency component coring		0~3	1	1	1	1				YHCO&YHCG settings are sent directly to 3D-Comb device.
21	**YHCG**	Y output high frequency component coring gain		0, 1	0	0	0	0				
22	**HSSL**	Hsync slice level	C	0~15	12	C: Common data						
23	**VSSL**	Vsync slice level	C	0~15	8							
24	**ADCL**	ADC clock delay	C	0~3	3							
		NRMD Setting-based Control Table for D2GA			**NRMD = 0**	**NRMD = 1**	**NRMD = 2**	**NRMD = 3**				
25	**D2GA**	Moving detection gain		0~7	4	4	4	4				
26	**KILR**	Killer detection reference	C	0~15	3							
27	**OP1**	Option1: Selection of comb filter & recursive noise reduction types	C	0, 1	1							
					UHF/VHF	**CVideo1**	**SVideo1**	**CVideo2**	**SVideo2**	**CVideo3**	**SVideo3**	
28	**NR1**	Noise reduction on/off		0, 1	0	0	1	0	1	0	1	
29	**NR2**	SNNR control on/off	C	0, 1	0							
30	**WSL**	Noise level detection data		0~255	1 Byte Data from Read Register WSL							
31	**HPLL**	H-PLL filter (Must be set to 1 when MN signal is input.)	C	0, 1	1							
32	**BPLL**	Burst PLL filter	C	0, 1	1							
33	**FSCF**	Burst extraction gain	C	0, 1	0							
34	**PLLF**	PLL loop gain	C	0, 1	1							
					UHF/VHF	**Video1~4**	**Video5&6**	Video1~4: CVideo1~4 & SVideo1~3 inputs				
35	**CC3N**	Selection of a line-comb filter C separation filter characteristic		0, 1	0	0	0	Video5&6: YPbPr-480i/480p/1080i inputs				
36	**HDP**	Fine adjustment of the system H-phase	C	0~7	5							
37	**BGPS**	Internal burst gate start position {Gate Start Position from Hsync center = 0.25 x BGPS + 2	C	0~15	4							
38	**BGPW**	Internal burst gate width {Gate Width = 0.25 x BGPW + 0.5 (ms)}	C	0~15	10							
39	**TEST**	Test bit {0: Normal mode, 1: Test mode (forbidden setting)}	C	0, 1	0							
40	**WSC**	Amount of noise detection coring	C	0~3	1							
					UHF/VHF & Video1~4		**Video5&6**	This setting is used for non-standard signals				
41	**LIND**	DRC-M line-doubling setting for non-standard signals	Micro	0~63	0		2	such as Play Station signals.				
42	**PFGO**	(YPFG offset at GR on) --- Not used for DX1A	---	0~7	3	(Not used for DX1A)						

Note:

DX1A SERVICE LIST (#2-1): CXA2103-1 {Main}

Device Name: **CXA2103Q { NTSC-YCT (Chroma Decoder) / SONY } / IC3048 (B-board) / P/N: 8-752-089-50 (SBorSD#: NA)**
Slave Address: **9Ah { Main }**

Register No & Name		Control Register Function & Link	Data Type	Data Range	Data Initial Setting & [Average Data] (32V&36V CRTs)				Data Initial/Average Setting (32V&36V CRTs)				Note
					UHF/VHF & Video		YPbPr-480i		Video: CVideo1~4 & SVideo1~3 Inputs P&P-Left (M)-1080i&480i: If P&P-Left is 1080i/480p signal, the signal from the main chroma decoder is sent to MID/VDO input. *: Settings not used				
					P&P-Left (M)-DRC	P&P-Left (M)-1080i	P&P-Left (M)-DRC	P&P-Left (M)-480i					
0	**YLEV**	Y-Out gain		0~63	23	27*	28	31*					
1	**CLEV**	Cb&Cr-Out gains		0~63	17	55*	32	31*					
					UHF/VHF		Video		Adj.: Adjusted data [Adj.-2steps]: The adjusted data - 2 steps				
2	**SCON**	Sub contrast	Adj.	0~15	7 [7]		7 [7]						
3	**SCOL**	Sub color	Adj.	0~15	7 [7]		7 [7]						
4	**SHUE**	Sub hue	Adj.	0~15	7 [Adj.-2steps]		7 [Adj.-2steps]						
5	**YDLY**	Y/C delay time		0~3	0		0						
		SNNR Data-related Settings			UHF/VHF	CVideo	SVideo	YPbPr 480i	SNNR=0 (-offset)	SNNR=1 (-offset)	SNNR=2 (-offset)	SNNR=3 (-offset)	
6	**SHAP**	Sharpness		0~15	6	4	4	4	0	1	2	3	
7	**SHF0**	Sharpness f0 selector		0~3	0	0	0	0	CVideo: CVideo1~4 Inputs SVideo: SVideo1~3 Inputs				
8	**PREO**	Sharpness pre/over-shoot ratio		0~3	3	0	0	0					
9	**BPF0**	Chroma band filter f0 setting		0~3	3	0	0	0					
10	**BPFQ**	Chroma band filter Q setting		0~3	0	3	3	3					
11	**BPSW**	Chroma band filter on/off		0, 1	1	0	0	0					
12	**TRAP**	Y bolck chroma trap filter on/off		0, 1	0	0	0	0					
13	**LPF**	YPbPr-Output LPF on/off		0, 1	0	0	0	0					
					UHF/VHF	Video	YPbPr 480i						
14	**AFCG**	AFC Loop Gain (PLL between Hsync		0, 1	1	0	0						
15	**CDMD**	V countdown system mode selector		0~3	3	3	3						
16	**SSMD**	H&Vsync slide level setting		0~3	0	0	0						
17	**HMSK**	Masking of macrovision signal on/off		0, 1	1	1	1						
18	**HALI**	H automatic adjustment on/off		0, 1	0	0	0						
19	**PPHA**	H TIM phase adjustment for video		0~15	7	7	7						
					UHF/VHF & Video		YPbPr-480i						
					P&P-Left (M)-DRC	P&P-Left (M)-1080i	P&P-Left (M)-DRC	P&P-Left (M)-480i					
20	**CBOF**	Cb-Offset1 of Cb IN (Pin34) Cb-Offset2 of EXT Cb (Pin38)		0~(31)~63	31	31*	31	31*	*: Settings not used (31): The center setting = 31				
21	**CROF**	Cr-Offset1 of Cr IN (Pin35) Cr-Offset2 of EXT Cr (Pin39)		0~(31)~63	31	31*	31	31*					
	CXA2150P-4/#13 UBLK Setting-related Controls for ATPD & DCTR				P&P & Favorite				P&P & Favorite				Single
					UBLK = 0	UBLK = 1	UBLK = 2	UBLK = 3	UBLK = 4	UBLK = 5	UBLK = 6	UBLK = 7	UBLK = 0~7
22	**ATPD**	Auto-pedestal Inflection Point		0~3	0	1	2	3	1	2	3	2	0
23	**DCTR**	DC Transmission Ratio		0~3	0	1	1	1	2	2	2	3	0

Note:

DX1A SERVICE LIST (#2-2): CXA2103-2 {Sub}

Device Name: CXA2103Q { NTSC-YCT (Chroma Decoder) / SONY } / IC3110 (B-board) / P/N: 8-752-089-50 (SBorSD#: NA)

Slave Address: 9Eh { Sub }

Register No & Name		Control Register Function & Link	Data Type	Data Range	Data Initial Setting & [Average Data] (32V&36V CRTs)				Data Initial/Average Setting (32V&36V CRTs)				Note
					UHF/VHF & Video				Video: CVideo1~4 & SVideo1~3 Inputs P&P-Right (S)-DRC: If P&P-Left is 1080i/480p signal, the signal from the sub chroma decoder is switched to DRC path.				
					P&P-Right (S)	P&P-Right (S)-DRC							
0	**YLEV**	Y-Out gain		0~63	23	22							
1	**CLEV**	Cb&Cr-Out gains		0~63	18	16							
					UHF/VHF		Video		Adj.: Adjusted data [Adj.-2steps]: The adjusted data - 2 steps				
2	**SCON**	Sub contrast	Adj.	0~15	7 [7]		7 [7]						
3	**SCOL**	Sub color	Adj.	0~15	7 [7]		7 [7]						
4	**SHUE**	Sub hue	Adj.	0~15	7 [Adj.-2steps]		7 [Adj.-2steps]						
5	**YDLY**	Y/C delay time		0~3	0		0						
		SNNR Data-related Settings			UHF/VHF	CVideo	SVideo		SNNR=0 (-offset)	SNNR=1 (-offset)	SNNR=2 (-offset)	SNNR=3 (-offset)	
6	**SHAP**	Sharpness		0~15	6	4	4		0	1	2	3	
7	**SHF0**	Sharpness f0 selector		0~3	0	0	0		CVideo: CVideo1~4 Inputs SVideo: SVideo1~3 Inputs				
8	**PREO**	Sharpness pre/over-shoot ratio		0~3	3	0	0						
9	**BPF0**	Chroma band filter f0 setting		0~3	0	0	0						
10	**BPFQ**	Chroma band filter Q setting		0~3	0	0	0						
11	**BPSW**	Chroma band filter on/off		0, 1	0	0	0						
12	**TRAP**	Y bolck chroma trap filter on/off		0, 1	0	0	0						
13	**LPF**	YPbPr-Output LPF on/off		0, 1	0	0	0						
					UHF/VHF	Video							
14	**AFCG**	AFC Loop Gain		0, 1	1	0							
15	**CDMD**	V countdown system mode selector		0~3	3	3							
16	**SSMD**	H&Vsync slide level setting		0~3	0	0							
17	**HMSK**	Masking of macrovision signal on/off		0, 1	1	1							
18	**HALI**	H automatic adjustment on/off		0, 1	0	0							
19	**PPHA**	H TIM phase adjustment for video		0~15	7	7							
					UHF/VHF & CVideo		YPbPr-480i						
					P&P-Right (S)	P&P-Right (S)-DRC	P&P-Right (S)	P&P-Right (S)-DRC					
20	**CBOF**	Cb-Offset1 of Cb IN (Pin34) Cb-Offset2 of EXT Cb (Pin38)		0~(31)~63	31	31	31*	31*	*: Settings not used (31): The center setting = 31				
21	**CROF**	Cr-Offset1 of Cr IN (Pin35) Cr-Offset2 of EXT Cr (Pin39)		0~(31)~63	31	31	31*	31*					
	CXA2150P-4/#13 UBLK Setting-related Controls for ATPD & DCTR				P&P & Favorite				P&P & Favorite				Single
					UBLK = 0	UBLK = 1	UBLK = 2	UBLK = 3	UBLK = 4	UBLK = 5	UBLK = 6	UBLK = 7	UBLK = 0~7
22	**ATPD**	Auto-pedestal Inflection Point		0~3	0	1	2	3	1	2	3	2	0
23	**DCTR**	DC Transmission Ratio		0~3	0	1	1	1	2	2	2	3	0

Note:

DX1A SERVICE LIST (#3-1): CXA2150P-1 {Picture Controls: P1}

Device Name: CXA2150Q { CRT Driver / SONY } / IC201 (A-board) / P/N: 8-752-093-35 (SBorSD#: NA)
Slave Address: 86h

Register No & Name		Control Register Function & Link	Data Type	Data Range	Data Initial Settings & [Average Data] (32V&36V CRTs)							Comment
					UHF VHF	CV	SV	YPbPr 480i	YPbPr 480p	YPbPr 1080i	P&P	
0	**SBOT**	Offset for SBRT		0~(7)~15	7	7	7	7	7	7	7	CV: CVideo1~4 SV: SVideo1~3 ( ): Settings at center
1	**YOF**	Y_OFFSET: DC-offset for Y signal		0~(7)~15	0	0	0	0	0	0	0	
2	**CBOF**	CB_OFFSET: DC-offset for Cb signal		0~(31)~63	31	31	31	33	30	31	13	
3	**CROF**	CR_OFFSET: DC-offset for Cr signal		0~(31)~63	31	31	31	42	36	31	23	
4	**SBRT**	SUB_BRIGHT: Sub Bright	Adj.	0~63	24 [24]							Adj.: Adjusted data C: Common data Initial Setting = [Avg. Data]
5	**RDRV**	R_DRIVE: R output drive	C	0~63	41							
6	**GDRV**	G_DRIVE: G output drive	Adj.	0~63	36 [36]							
7	**BDRV**	B_DRIVE: B output drive	Adj.	0~63	33 [33]							
8	**RCUT**	R_CUTOFF: R output cutoff	C	0~63	41							
9	**GCUT**	G_CUTOFF: G output cutoff	Adj.	0~63	11 [11]							
10	**BCUT**	B_CUTOFF: B output cutoff	Adj.	0~63	22 [22]							

					Vivid	Standard	Movie	Pro	
11	**WBSW**	WB_SW: White balance offset on/off (Related to UTMP seetings)		0, 1	0 (Cool)	0 (Neutral)	1 (Warm)	0	
12	**SBOF**	Offset for SBRT		0~(63)~127	63	63	63	63	
13	**RDOF**	Offset for RDRV		0~(63)~127	63	63	63**	63	**: The color temperature offset data
14	**GDOF**	Offset for GDRV		0~(63)~127	63	63	66**	63	
15	**BDOF**	Offset for BDRV		0~(63)~127	63	63	76**	63	
16	**RCOF**	Offset for RCUT		0~(63)~127	63	63	63**	63	
17	**GCOF**	Offset for GCUT		0~(63)~127	63	63	66**	63	
18	**BCOF**	Offset for BCUT		0~(63)~127	63	63	78**	63	

DX1A SERVICE LIST (#3-2): CXA2150P-2 {Picture Controls: P2}

Device Name: CXA2150Q { CRT Driver / SONY } / IC201 (A-board) / P/N: 8-752-093-35 (SBorSD#: NA)

Register No & Name		Control Register Function & Link	Data Type	Data Range	Data Initial/Average Settings (32V&36V CRTs)					Comment
0	**ALBK**	PIC_ON: RGB output including AKB reference pulse on/off (Setting = 0 for power on reset) --- G2 adjustment register setting	C	0, 1	1					C: Common data
1	**RGBS**	R_ON/G_ON/B_ON: R/G/B outputs on/off (AKB reference pusle can not be turned on/off.) (0,1/0,1/0,1)	C	0~7	7					
2	**BLKB**	BLK_BTM: RGB output bottom limit level (Black Limit) (AKB reference pusle DC-voltage)	C	0~3	3					
3	**LIML**	PLIMIT_LEV: Threshold level for excessively high inputs (White Limit)	C	0~3	0					
4	**PABL**	P_ABL: DC-level in RGB output detection for PEAK ABL	C	0~15	15					
5	**SABL**	S_ABL: S_ABL gain	C	0~3	0					
6	**AGNG**	AGING_W/AGING_B: AGING_W/AGING_B modes on/off (Set luminance to 80/01IRE flat-field signal.)	C	0~3 0,1/0,1	0					
7	**AKBO**	AKBOFF: Automatic/Manual-Cutoff setting	C	0, 1	0					
					U/VHF & Video1~4	**YPbPr 480i**	**YPbPr 480p**	**YPbPr 1080i**	**P&P**	Video1~4: CVideo1~4 & SVideo1~3
8	**SYPH**	SYNC_PHASE: Hsync delay with respect to Video (100%: H-period)		0~3	0	0	0	0	0	
9	**CLPH**	CLP_PHASE: Internal clamp pulse phase (100%: H-period)		0~3	3	3	3	3	3	
10	**CLGA**	CLP_GATE: Switch for the gated internal clamp pulse with Hsync		0, 1	0	0	0	0	0	
11	**JAXS**	JAXIS: Color axis switch		0, 1	0					
12	**BLKO**	BLKO: Blanking switch		0, 1	0					

DX1A SERVICE LIST (#3-3): CXA2150P-3 {Picture Controls: P3} (Part-1/3)

Device Name: CXA2150Q { CRT Driver / SONY } / IC201 (A-board) / P/N: 8-752-093-35 (SBorSD#: NA)
Slave Address: 86h

Register No & Name		Control Register Function & Link	Data Type	Data Range	Data Initial/Average Settings (32V&36V CRTs) Picture Mode: Vivid							Comment
					UHF VHF	CV	SV	YPbPr 480i	YPbPr 480p	YPbPr 1080i	P&P	
0	**SYSM**	SYSTEM: Signal bandwidth setting		0~3	1	1	1	1	1	2	2	These settings continue to the next page. CV: CVideo1~4 SV: SVideo1~3 C: Common data ( ): Settings at center
1	**UVML**	VM_LEV: VM_OUT level	C	0~3	3							
2	**VMMO**	System Micro pin#40		0, 1	0	0	0	0	0	0	0	
3	**VMCR**	VM_COR: VM_OUT coring level		0~3	3	3	3	3	3	3	3	
4	**VMLM**	VM_LMT: VM_OUT limit level		0~3	3	3	3	3	3	3	3	
5	**VMF0**	VM_F0: VM_f0		0~3	2	2	2	2	2	2	2	
6	**VMDL**	VM_DLY: VM_OUT phase (defined by phase difference from R_OUT)		0~3	3	3	3	3	3	1	3	
7	**SHOF**	Offset for USHP = SHOF x 4		0~3	2	2	2	3	3	0	2	
8	**SHF0**	SHP_F0: Sharpness circuit f0		0, 1	1	1	1	1	1	0	1	
9	**PROV**	PRE/OVER: Y signal pre/over-shoot ratio		0~3	3	3	3	1	3	0	3	
10	**F1LV**	SHP_F1: Sharpness for higher f0 (4.2/5.6 MHz @ NORMAL mode)		0~3	0	3	3	3	3	3	3	
11	**CDSP**	SHP_CD: Sharpness in part of high color saturaion		0~3	3	3	3	3	3	3	3	
12	**LTLV**	LTI_LEV: Luminance transient improvement (LTI)		0~3	3	3	3	3	3	3	3	
13	**LTMD**	LTI_MODE: LTI mode setting		0~3	0	0	0	0	0	0	1	
14	**CTLV**	CTI_LEV: Chrominance transient improvement (CTI)		0~3	0	0	0	0	0	2	0	
15	**CTMD**	CTI_MODE: CTI mode setting		0~3	0	0	0	0	0	0	0	
16	**UBOF**	Offset for UBRT (Picture clarity adjustment)		0~(7)~15	7	7	7	7	7	10	7	
17	**UCOF**	Offset for UCOL = UCOF x 2 (Picture clarity adjustment)		0~3	3	3	3	3	3	0	3	
18	**UHOF**	Offset for UHUE (Picture clarity adjustment)		0~3	0	0	0	0	0	0	0	
19	**MIDE**	MID enhancement setting		0~15	3	3	3	7	11	---	---	

DX1A SERVICE LIST (#3-3): CXA2150P-3 {Picture Controls: P3} (Part-2/3)

Register No & Name	Data Initial/Average Settings (32V&36V CRTs)							Data Initial/Average Settings (32V&36V CRTs)							Data Initial/Average Settings (32V&36V CRTs)							Note
	Picture Mode: Standard							Picture Mode: Movie							Picture Mode: Pro							
	UHF VHF	CV	SV	YPbPr 480i	YPbPr 480p	YPbPr 1080i	P&P	UHF VHF	CV	SV	YPbPr 480i	YPbPr 480p	YPbPr 1080i	P&P	UHF VHF	CV	SV	YPbPr 480i	YPbPr 480p	YPbPr 1080i	P&P	
#0 **SYSM (cont.)**	1	1	1	1	1	2	2	1	1	1	1	1	2	2	1	1	1	1	1	2	2	See next page
#1 **UVML (cont.)**	3							0							0							
#2 **VMMO (cont.)**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
#3 **VMCR (cont.)**	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
#4 **VMLM (cont.)**	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
#5 **VMF0 (cont.)**	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
#6 **VMDL (cont.)**	1	3	3	3	3	1	3	1	1	1	1	1	1	3	1	1	1	1	1	1	3	
#7 **SHOF (cont.)**	0	3	3	3	3	0	2	0	3	3	3	3	0	3	0	3	3	3	3	0	3	
#8 **SHF0 (cont.)**	0	1	1	1	1	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	1	
#9 **PROV (cont.)**	3	3	3	1	3	0	3	3	3	3	1	3	0	3	3	3	3	1	3	0	3	
#10 **F1LV (cont.)**	0	3	3	3	3	3	3	0	0	0	0	0	0	3	0	0	0	0	0	0	3	
#11 **CDSP (cont.)**	3	3	3	3	3	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
#12 **LTLV (cont.)**	2	2	2	2	2	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
#13 **LTMD (cont.)**	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	0	0	1	
#14 **CTLV (cont.)**	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
#15 **CTMD (cont.)**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
#16 **UBOF (cont.)**	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
#17 **UCOF (cont.)**	3	3	3	3	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
#18 **UHOF (cont.)**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
#19 **MIDE (cont.)**	2	2	2	6	10	---	---	1	1	1	5	9	---	---	0	0	0	4	8	---	---	

DX1A SERVICE LIST (#3-3): CXA2150P-3 {Picture Controls: P3} (Part-3/3)

Register No & Name	Data Initial/Average Settings (32V&36V CRTs)						Comment
	SNNR=0 (Offset)	SNNR=1 (Offset)	SNNR=2 (Offset)	SNNR=3 (Offset)			
#1 **UVML (cont.)**	0	0	0	0			
#3 **VMCR (cont.)**	0	+ 1	+ 2	+ 3			
#10 **F1LV (cont.)**	0	- 1	- 2	- 3			
#11 **CDSP (cont.)**	0	0	0	0			
#12 **LTLV (cont.)**	0	0	0	0			
#14 **CTLV (cont.)**	0	0	0	0			
#19 **MIDE (cont.)**	0	0	0	0			

DX1A SERVICE LIST (#3-4): CXA2150P-4 {Picture Controls: P4} (Part-1/4)

Device Name: CXA2150Q { CRT Driver / SONY } / IC201 (A-board) / P/N: 8-752-093-35 (SBorSD#: NA) Slave Address: 86h
Device Name: CXD2085M { ID-1 Decoder / SONY } / IC3603 (B-board) / P/N: 8-752-395-13 (SD#: S98511B) Slave Address: 40h

Register No & Name		Control Register Function & Link	Data Type	Data Range	Data Initial/Average Settings (32V&36V CRTs)							Comment
					Vivid		**Standard**		**Movie**		**Pro**	
					32V	**36V**	**32V**	**36V**	**32&36V**			Settings for 36V CRTs are used for initial settings.
0	**UPIC**	PICTURE: Picture		0~63	63	63	42	46	31		31	
1	**UBRT**	BRIGHT: Brightness		0~63	25	22	28	26	28		31	
2	**UCOL**	COLOR: Color		0~63	34	38	33	33	33		31	
3	**UHUE**	HUE: Hue		0~63	31	31	31	31	31		31	
		SNNR Setting-related Controls for USHP										This setting continues to the next page.
4	**USHP**	SHARPNESS: Sharpness		0~63	38	42	44	48	34		31	
5	**UTMP**	Color Temporature (0: Warm, 1: Neutral, 2: Cool)		0~2	2	2	1	1	0		1	
6	**UDCL**	DCOL: Dynamic color setting		0~3	2	2	2	2	2		0	
					Picture Mode: Vivid / Standard / Movie							These settings continue to the next page. Video1~4: CVideo1~4 & SVideo1~3
					UHF/VHF Video1~4		**YPbPr 480i**	**YPbPr 480p**	**YPbPr 1080i**	**P&P**		
7	**AXIS**	COL_AXIS: Color matrix setting		0~3	3		3	3	3	3		
					Picture Mode: Vivid							
					UHF/VHF Video1~4		**YPbPr 480i**	**YPbPr 480p**	**YPbPr 1080i**	**P&P**		
8	**UGAM**	GAMMA/GAMMA_L: RGB output GAMMA correction setting ($B_{7\sim6}$) GAMMA_L: Slight GAMMA correction on/off (B_0)		0~7 (0~3/0,1)	5		5	5	5	5		
9	**AGAM**	GAMMA/GAMMA_L (Av Pro user control) --- Void Data		0~7 (0~3/0,1)	---							
		UGAM Setting-related Controls for GSBO, GCOO, GHUO			**UGAM = 7**	**UGAM = 6**	**UGAM = 5**	**UGAM = 4**	**UGAM = 3**	**UGAM = 2**	**UGAM = 1**	These settings continue to the next page.
10	**GSBO**	Offset for SBRT (8 types of GSBO data based on UGAM values)		0~3	0	0	0	0	0	0	0	
11	**GCOO**	Offset for UCOL		0~3	0	0	0	0	0	0	0	
12	**GHUO**	Offset for UHUE		0~3	0	0	0	0	0	0	0	
					Picture Mode: Vivid							
					UHF/VHF Video1~4		**YPbPr 480i**	**YPbPr 480p**	**YPbPr 1080i**	**P&P**		
13	**UBLK**	Item # 15~18 pack FI data controls		0~7	7		7	7	7	7		
14	**ABLK**	(Av Pro user control) --- Void Data	---	0~7	0 (Void data)							
		UBLK Setting-related Controls for DCTR										
15	**DCTR**	DC_TRAN: Y signal DC transmission (8 types of DCTR data based on UBLK values)		0~3	3		3	3	3	2		These settings continue to the next page. ( ): Seetings at center
16	**DPIC**	DPIC_LEV: Y signal AUTO PEDESTAL level		0~3	2		2	2	2	1		
17	**DSBO**	Offset for SBRT		0~(7)~15	7		7	7	7	7		
18	**ABLM**	ABL_MODE: ABL mode		0~3	1		1	1	1	1		

DX1A SERVICE LIST (#3-4): CXA2150P-4 {Picture Controls: P4} (Part-2/4)

Register No & Name	Data Initial/Average Settings (32V&36V CRTs)					Data Initial/Average Settings (32V&36V CRTs)					Data Initial/Average Settings (32V&36V CRTs)					Note
SNNR Setting (-Offset)	SNNR = 0	SNNR = 1	SNNR = 2	SNNR = 3												
#4 **USHP (cont.)**	0	1	3	4												
	Picture Mode: Pro															
	UHF/VHF Video1~4	YPbPr 480i	YPbPr 480p	YPbPr 1080i	P&P											
#7 **AXIS (Cont.)**	3	3	3	3	3											
	Picture Mode: Standard					Picture Mode: Movie					Picture Mode: Pro					
	U/VHF Video1~4	YPbPr 480i	YPbPr 480p	YPbPr 1080i	P&P	U/VHF Video1~4	YPbPr 480i	YPbPr 480p	YPbPr 1080i	P&P	U/VHF Video1~4	YPbPr 480i	YPbPr 480p	YPbPr 1080i	P&P	
#8 **UGAM (Cont.)**	2	2	2	2	2	0	0	0	0	0	0	0	0	0	0	
	UGAM = 0															
#10 **GSBO (cont.)**	0															
#11 **GCOO (cont.)**	0															
#12 **GHUO (cont.)**	0															
	Picture Mode: Standard					Picture Mode: Movie					Picture Mode: Pro					
	UHF/VHF Video1~4	YPbPr 480i	YPbPr 480p	YPbPr 1080i	P&P	UHF/VHF Video1~4	YPbPr 480i	YPbPr 480p	YPbPr 1080i	P&P	UHF/VHF Video1~4	YPbPr 480i	YPbPr 480p	YPbPr 1080i	P&P	
#13 **UBLK (Cont.)**	4	4	4	4	4	1	1	1	1	1	0	0	0	0	0	
#15 **DCTR (Cont.)**	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	See next pages
#16 **DPIC (Cont.)**	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	
#17 **DSBO (Cont.)**	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
#18 **ABLM (Cont.)**	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	

DX1A SERVICE LIST (#3-4): CXA2150P-4 {Picture Controls: P4} (Part-3/4)

Register No & Name	Data Initial/Average Settings (32V&36V CRTs)								Comment
	UBLK = 7	UBLK = 6	UBLK = 5	UBLK = 4	UBLK = 3	UBLK = 2	UBLK = 1	UBLK = 0	
#15 **DCTR (Cont.)**	3	2	2	2	1	1	1	1	
#16 **DPIC (Cont.)**	2	3	2	1	3	2	1	0	
#17 **DSBO (Cont.)**	7	7	7	7	7	7	7	7	
#18 **ABLM (Cont.)**	1	0	0	1	0	0	0	0	

DX1A SERVICE LIST (#3-4): CXA2150P-4 {Picture Controls: P4} (Part-4/4)

Register No & Name		Control Register Function & Link	Data Type	Data Range	Data Initial/Average Settings (32V&36V CRTs)					Comment
19	**ABLT**	ABL_TH: ABL currect detection Vth control		0~15	0					
					Full	**Vcomp1**		**Vcomp2**		Full: 480p/960i (4x3) Vcomp1: 480p/960i (16x9) Vcomp2: 1080i (16x9) ( ): Settings at center C: Common data
20	**ABLC**	Control of CXA2026 {0Ch -- DAC0} (*)		0~255	0	66				
21	**EPOF**	Offset for UPIC = EPOF x (UPIC/63) (for power save) --- Void	---	0~31						
		ID-1 and P&P Modes								
22	**SPOF**	Offset for UPIC = SPOF x (UPIC/64) --- Data Not Used	---	0~31	0 (Not used)					
					UHF/VHF Video1~4	**YPbPr 480i**	**YPbPr 480p**	**YPbPr 1080i**	**P&P**	
23	**SCON**	SUB_CONTRAST: SUB PICTURE		0~15	9	8	11	10	9	
24	**CLOF**	Offset for UCOL		0~(7)~1	8	8	9	7	8	
25	**HUO**	Offset for UHUE		0~7~15	4	3	3	3	4	
		CXD2085 Service Controls								
26	**IDSW**	Switch for activating the selection in #26 DATA	C	0, 1	0					
					Full	**Vcomp1**		**Vcomp2**		
27	**DATA**	Selection of geometry-forced vertical compression modes	C	0~3	0	1		2		

DX1A SERVICE LIST (#4-1): CXA2150D-1 {Deflection Controls: D1}

Device Name: **CXA2150Q { CRT Driver / SONY } / IC201 (A-board) / P/N: 8-752-093-35 (SBorSD#: NA)**
Slave Address: **86h**

Register No & Name		Control Register Function & Link	Data Type	Data Range	Data Initial Settings & [Average Data] (32V&36V CRTs)			Comment
					Full	Vcomp1	Vcomp2	Full: 480p/960i (4x3) display Vcomp1: 480p/960i (16x9) display Vcomp2: 1080i (16x9) display Adj.: Adjusted data ( ): Settings at center
0	**VPOS**	V_POSITION: Vertical position (V_DRV siganl DC-b	Adj.	0~(31)~63	26 [26]			
1	**VSIZ**	V_SIZE: Vertical size (V_DRV signal gain)	Adj.	0~(31)~63	19 [19]			
2	**VLIN**	V_LINEARITY: Vertical linearity (Gain for V_DRV signal secondary component)	Adj.	0~(7)~15	9 [9]			
3	**VSCO**	S_CORRECTION: Vertical S-correction	Adj.	0~(7)~15	8 [8]			
4	**VCEN**	VSAW0_DCH/VSAW0_DCL: Vertical center adjustment VSAW0_DCH: VSAW0 waveform DC component	Adj.	0~(31)~63	31 [31]			VCEN-L(Low bit) VCEN-H(High bit)
5	**VPIN**	VSAW0_AMP: Vertical PIN adjustment VSAW0 waveform SAW component amplitude	Adj.	0~(15)~31	15 [15]	15 [Copy1]		[Copy1]: Copy the adjusted data for Full mode.
6	**NSCO**	VSAW1_DC: Rotation	Adj.	0~(7)~15	7 [7]			Either 7 or 8 can be used as the average NSCO data. (If both of them are not good, please feedback to / check with the DY attachment process.)
7	**HTPZ**	VSAW1_AMP: Horizontal trapezoid	Adj.	0~(15)~31	15 [15]			
8	**ZOOM**	ZOOM_SW: Zoom switch		0, 1	0	0		
9	**APSW**	ASP_SW: Aspect switch		0, 1	1	1	0	
10	**ASPT**	V_ASPECT: Aspect ratio	Adj.	0~63	47	47	47	
11	**SCRL**	V_SCROLL: Vertical scroll	Adj.	0~(31)~63	31	32	32	
12	**UVLN**	UP_VLIN: Upper vertical linearity		0~15	0	0		
13	**LVLN**	LO_VLIN: Lower vertical linearity		0~15	0	0		

Note:

DX1A SERVICE LIST (#4-2): CXA2150D-2 {Deflection Controls: D2}

Device Name: **CXA2150Q { CRT Driver / SONY } / IC201 (A-board) / P/N: 8-752-093-35 (SBorSD#: NA)**

Slave Address: **86h**

Register No	Register Name	Control Register Function & Link	Data Type	Data Range	Data Initial Settings & [Average Data] (32V&36V CRTs) Full	Vcomp1	Vcomp2	Comment
					Full	Vcomp1	Vcomp2	Full: 480p/960i (4x3) display Vcomp1: 480p/960i (16x9) display Vcomp2: 1080i (16x9) display ( ): Settings at center Adj.: Adjusted data [Adj.-6steps]: The adj. data for Vcomp2 mode = The adj. data for Full/Vcomp1
0	**HCNT**	HC_PARA_DC: Horizontal center	Adj.	0~(31)~63	31 [31]			
1	**HPOS**	H_POSITION: Horizontal position	Adj.	0~(31)~63	31 [31]		31 [Adj.-6steps]	
2	**HSIZ**	H_SIZE: Horizontal size	Adj.	0~(31)~63	45 [45]			
3	**SLIN**	MP_PARA_DC: Horizontal S-correction	Adj.	0~15	3 [3]			
4	**MPIN**	MP_PARA_AMP: Horizontal middle pin		0~15	9 (32V) or 7 (36V)			
5	**PIN**	PIN_AMP: Horizontal pin	Adj.	0~(31)~63	35 [35]			
6	**UCP**	UP_CPIN: Upper corner pin	Adj.	0~(31)~63	38 [38]			
7	**LCP**	LO_CPIN: Lower corner pin	Adj.	0~(31)~63	42 [42]			
8	**UXCG**	UP_UCG: Upper extra corner pin gain		0~3	2 (32V) or 1 (36V)			Data (32Vor36V): The data for 36V are used as the Initial & CBA data. From the system micro (V 2.0), the deflection control-related initial settings are the same as their average data.
9	**LXCG**	LO_UCG: Lower extra corner pin gain		0~3	2			
10	**UXCP**	UP_UCP: Upper extra corner pin position		0~3	2			
11	**LXCP**	LO_UCP: Lower extra corner pin postion		0~3	2			
12	**XCPP**	UC_POL: Extra corner pin polarity		0, 1	0			
13	**PPHA**	PIN_PHASE: Pin phase	Adj.	0~(31)~63	15 [15]			
14	**VANG**	AFC_ANGLE: AFC angle	Adj.	0~(31)~63	31 [31]			
15	**LANG**	HC_PARA_PHASE: Linearity angle	Adj.	0~(31)~63	31 [31]			
16	**VBOW**	AFC_BOW: AFC bow	Adj.	0~(31)~63	31 [31]			
17	**LBOW**	HC_PARA_AMP: Linearity bow	Adj.	0~(31)~63	31 [31]			
18	**CPY1**	Copy Function 1: (Set CPY1=1, then press MUTE + nter.)	Micro	0, 1	0			For engineering design use only

Note:

DX1A SERVICE LIST (#4-3): CXA2150D-3 {Deflection Controls: D3}

Device Name: CXA2150Q { CRT Driver / SONY } / IC201 (A-board) / P/N: 8-752-093-35 (SBorSD#: NA)
Slave Address: 86h

Register No & Name		Control Register Function & Link	Data Type	Data Range	Data Initial/Average Settings (32V&36V CRTs)			Comment
					Full	Vcomp1	Vcomp2	Full: 480p/960i (4x3) display
0	**HBLK**	HBLK_SW: Horizontal blanking switch		0, 1	1			Vcomp1: 480p/960i (16x9) display
1	**LBLK**	LEFT_BLK: Left blanking		0~63	45		50	Vcomp2: 1080i (16x9) display
2	**RBLK**	RIGHT_BLK: Right blanking		0~63	24		27	
3	**VBLK**	VBLK_SW: Vertical blanking switch		0, 1	1	1		
4	**TBLK**	UP_BLK: Top blanking		0~(7)~15	1	8	12	( ): Settings at center
5	**BBLK**	LO_BLK: Bottom blanking		0~(7)~15	0	13	13	
6	**VCMP**	V_COMP: Vertical compensation		0~15	0	0	0	
7	**HCMP**	H_COMP: Horizontal compensation		0~15	0	0		
8	**ACMP**	AFC_COMP: AFC compensation		0~7	0	0		
9	**PCMP**	PIN_COMP: Pin compensation		0~7	0	0		
10	**AFCM**	AFC_MODE: AFC loop gain		0~3	3		2	
11	**VFRQ**	V_FREQ: Vertical frequency		0~3	1			
12	**VON**	V_ON: Vertical drive on		0, 1	1			
13	**JUMP**	JMP_SW: Reference pulse jump swtich		0, 1	0	1		
14	**VDJP**	VDRV_SW: Vertical drive jump switch		0, 1	0	0	1	
15	**VDST**	RST_SW: Vertical drive start switch		0, 1	0	0	1	
16	**EWDC**	EW_DC: Pin DC level shift		0, 1	0	0		
17	**AKBT**	AKBTIM: AKB timing		0~31	20	20	10	

Note:

DX1A SERVICE LIST (#5): CXA2151Q

Device Name: CXA2151Q { Component I/F & Sync Seperation / SONY } / IC3001 (B-board) / P/N: 8-752-093-84 (SD#: S00302B)
Slave Address: 84h

Register No & Name		Control Register Function & Link	Data Type	Data Range	Data Initial/Average Settings (32V&36V CRTs)			Comment
					480i (15.75 KHz)	480p (31.50 KHz)	1080i (33.75 KHz)	Video5&6: YPbPr-480i/480p/1080i inputs Sub: 480i input from the sub-channel Full: 480p/960i (4x3) display Vcomp1: 480p/960i (16x9) display Vcomp2: 1080i (16x9) display C: Common data
0	**MTRX**	MAT_OUT: Selection of color matrix conversion types	Micro	0~3	0	0	1	
1	**GAIN**	GAIN_SEL: Selection of output signals for S_LYOUT, S_LCBOUT, S_LCROUT	C	0~3	0			
2	**CBGN**	YGAIN, CBGAIN, CRGAIN: The gain control of S_LYOUT, S_LCBOUT, & S_LCROUT	C	0~15	9			
3	**VTC**	V_TC: Setting of Vsync separation time constant	C	0~3	1			
4	**HWID**	H_WIDTH: Setting of the output pulsewidth of SELHOUT	C	0~3	1			
					Video5	Video6	Sub	
5	**HSEP**	HSEP_SEL: Setting for the sync separation system		0, 1	0	0	0	
6	**TEST**	TEST: Test mode selection (for device tests)	C	0, 1	0			
7	**FRGB**	The forced RGB selection (for tests) {0: MAT_OUT = MTRX (#0), 1: MAT_OUT = MTRX (#3)}	C	0, 1	0			
					Full	Vcomp1	Vcomp2	
8	**HMSK**	Hsync masking in vertical retrace		0, 1	1		0	

Note:

DX1A SERVICE LIST (#6): D-CONV / CXA8070

Device Name: **CXA8070AP { DY-Convergence Control / SONY } / IC5513 (D-board) / P/N: 8-759-595-52 (SB#: V1718)**
Slave Address: **DEh**

Register No	Register Name	Control Register Function & Link	Data Type	Data Range	Data Initial Settings & [Average Data] (32V&36V CRTs): Full	Vcomp1	Vcomp2	Comment
0	**SBHS**	DC AMP3: DC shift	Adj.	0~63	31 [31]	31 [31]		Full: 480p/960i (4x3) display mode
1	**YBWU**	VCA9: Upper Y-bow	Adj.	0~63	31 [31]	31 [31]		Vcomp1: 480p/960i (16x9) display mode
2	**YBWL**	VCA10: Lower Y-bow	Adj.	0~63	31 [31]	31 [31]		Vcomp2: 1080i (16x9) display mode
3	**RSAP**	DC AMP2: Right H-AMP	Adj.	0~63	31 [31]	31 [31]		
4	**RUBW**	VCA5: Right upper bow	Adj.	0~63	31 [31]	31 [31]		Adj.: Adjusted data
5	**RLBW**	VCA6: Right lower bow	Adj.	0~63	31 [31]	31 [31]		
6	**LSAP**	DC AMP1: Left H-AMP	Adj.	0~63	31 [31]	31 [31]		From the system micro (V 2.0),
7	**LUBW**	VCA1: Left upper bow	Adj.	0~63	31 [31]	31 [31]		the deflection control-related initial settings
8	**LLBW**	VCA2: Left lower bow	Adj.	0~63	31 [31]	31 [31]		are the same as their average data.
9	**CADJ**	DC AMP4: Offset adjustment (ADJ)	Adj.	0~63	48 [48]			
10	**CPY2**	Copy Function 2: (Set CPY2=1, then press MUTE + Enter.) Copy all CXA8070 data for Full mode to Vcomp1&2 modes.	Micro	0, 1	0			For engineering design use only

Note:

DX1A SERVICE LIST (#7): CXA2026AS

Device Name: **CXA2026AS { DQP Control / SONY } / IC5511 (D-board) / P/N: 8-752-074-64 (SD#: S95610B)**
Slave Address: **8Eh**

Register No	Register Name	Control Register Function & Link	Data Type	Data Range	Data Initial Settings & [Average Data] (32V&36V CRTs): Full	Vcomp1	Vcomp2	Comment
								Full: 480p/960i (4x3) display mode
0	**DFON**	SW0: DF on/off switch	C	0, 1	0			Vcomp1: 480p/960i (16x9) display mode
1	**DQP**	PWM: DQP phase	Adj.	0~63	23 [23]	23 [23]		Vcomp2: 1080i (16x9) display mode
2	**DF**	DAC1: DF phase	Adj.	0~63	25 [25]	25 [25]		C: Common data
3	**DQPD**	H.AMP: DQP dc-level	Adj.	0~63	34 [34]	34 [34]		Adj.: Adjusted data
4	**QPDV**	U.CBOW, L.CBOW: DQP dc-level vertical modulation		0~63	51	47		U.CBOW = QPDV + DVS
5	**DVS**	U.CBOW, L.CBOW: DQP dc-level tilt		0~(3)~7	0	0		L.CBOW = QPDV - DVS
6	**QPDY**	U.MBH,L.MBH: DQP dc-level at top & bottom areas		0~63	7	7		( ): Settings at center
7	**DQPA**	DC SHIFT: DQP amplitude	Adj.	0~63	22 [27] (32V) or 13 [15] (36V)	22 [27] (32V) or 13 [15] (36V)	22 [27] (32V) or 13 [15] (36V)	Data (36V) are used as Initial/CBA data. From the system micro (V 2.0), most deflection control-related initial settings are the same as their average data.
8	**QPAV**	U.YBOW, LYBOW: DQP amplitude vertical modulation		0~63	38	34		U.YBOW = QPAV + AVS
9	**AVS**	U.YBOW, LYBOW: DQP amplitude tilt		0~7	3	3		L.YBOW = QPAV - AVS
10	**NORM**	SW1:		0, 1	0	0		
11	**CPY3**	Copy Function 3: (Set CPY3=1, then press MUTE + Enter.) Copy all CXA8070 data for Full mode to Vcomp1&2 modes.	Micro	0, 1	0			For engineering design use only
12	**200V**	H.DUTY, H.TILT: 200V regulator adjustment	Adj.	0~63	31 [31]			

Note:

DX1A SERVICE LIST (#8): Audio Processing (AP) / BH3868FS

Device Name: BH3868FS { Audio Processor / ROHM } / IC7001 (A-board) / P/N: 8-759-678-92 (SBorSD#: NA)
Slave Address: 82h

Register No & Name		Control Register Function & Link	Data Type	Data Range	Data Initial/Average Setting (32V&36V CRTs)	Comment
0	**SVOL**	Volume: Offset for Volume		0~3	0	
1	**SBAL**	Balance: Offset for Balance		0~(3)~7	7	( ): Settings at center
2	**SBAS**	Bass: Offset for Bass		0~(3)~7	7	
3	**STRE**	Treble: Offset for Treble		0~(3)~7	7	
4	**BBLP**	BBE lowpass filter		0~15	0	
5	**BBHP**	BBE highpass filter		0~15	2	
6	**SREF**	Surround effect		0~7	11	
7	**AGC**	Auto gain control		0, 1	0	
8	**BBE**	BBE on/off		0, 1	1	

Note:

DX1A SERVICE LIST (#9): TruSurround (TRUS) / NJM2180

Device Name: NJM2180M { TruSurround 3D-Audio Processor / JRC } / IC4101 (S-board) / P/N: 8-759-686-15 (SB#: V9072)
Device Control: Controlled via CXA1315M (Audio Control D/A, IC4103/S-board, Slave Address: 48h) / P/N: 8-752-059-23 (SD#: S88Z45B)

Register No & Name		Control Register Function & Link	Data Type	Data Range	Data Initial/Average Setting (32V&36V CRTs)	Comment
0	**TS**	TruSurround effect selection		0~3	2	C: Common data
1	**DMY1**	Dummy data (No functions)	C	0~255	0	DMY1 is used to fulfil the minimum requirement of 2 control items in each service control category.

Note:

DX1A SERVICE LIST (#10): MID1 (Common Data)

Device Name: CXD9509AQ { MID-XA / Fujitsu & SONY } / IC3408 (B-board) / P/N: 8-759-672-57 (SBorSD#: NA)
Slave Address: 2Eh { Controlled through MID-XA Micro (IC3090/B-board, Slave Address: 64h) / P/N: 8-759-691-88 (SB#: V4216) }

MID-XA Micro (MASK type): MB94918RPF-G-128-BND, MID-XA Software: Version 03/30/00, (P/N: 8-759-689-66)
MID-XA Micro (MASK type): MB94918RPF-G-130-BND, MID-XA Software: Version 04/20/00, (P/N: 8-759-691-88)

Register No & Name		Control Register Function & Link	Register Name (Software)	Data Type	Data Range	Data Initial/Average Setting (32V&36V CRTs)			Comment
						MID Mode: All (Single & P&P & Favorite)			
0	**DHPH**	Horizontal phase of the active display area	d_h_phase	C	0~255	91			C: Common data
1	**DVPH**	Vertical phase of the active display area	d_v_phase	C	0~63	20			
2	**DHAR**	Horizontal size of the active display area	d_h_area	C	0~255	240			
3	**DVAR**	Vertical size of the active display area	d_v_area	C	0~255	135			
4	**DHPW**	Horizontal pulse width	d_h_pwidth	C	0~63	27			
5	**DVPW**	Vertical pulse width	d_v_pwidth	C	0~7	7			
6	**DYCD**	Delay of YC signal output	d_yc_delay	C	0~63	2			
7	**DYSD**	Delay of YS signal output	d_ys_delay	C	0~7	1			
						MID Mode: Signle & Favorite			
						Single 480i&p	Single 1080i	Favorite	
8	**MDHP**	Horizontal position of the main picture	m_dsp_hpos		0~255	33		12	
9	**MDVP**	Vertical position of the main picture	m_dsp_vpos		0~255	32	8	14	
10	**MDHS**	Horizontal size of the main picture	m_dsp_hsiz		0~255	230		158	
11	**MDVS**	Vertical size of the main picture	m_dsp_vsiz		0~255	120	135	106	
						MID Mode: P&P & Favorite			
12	**MLHP**	(Horizontal position of the multi pictures)			0~255	54			
13	**MLVP**	(Vertical position of the multi pictures)			0~255	31			
						MID Mode: Favorite			
14	**SDHP**	Horizontal position of the sub picture	s_dsp_hpos		0~255	172			
15	**SDVP**	Vertical position of the sub picture	s_dsp_vpos		0~255	14			
16	**SDHS**	Horizontal size of the sub picture	s_dsp_hsiz		0~255	61			
17	**SDVS**	Vertical size of the sub picture	s_dsp_vsiz		0~255	41			
						MID Mode: All (Single & P&P & Favorite)			
18	**DPSW**	Switch of display output PLL	dsp_pll_sw	C	0, 1	1			
19	**MDL0**	Model selection 0 (0: 16x9, 1: 4x3)		C	0, 1	0			

Note:

DX1A SERVICE LIST (#11): MID2 (DRC-in Data)

Device Name: CXD9509AQ { MID-XA / Fujitsu & SONY } / IC3408 (B-board) / P/N: 8-759-672-57 (SBorSD#: NA)
Slave Address: 2Eh { Controlled through MID-XA Micro (IC3090/B-board, Slave Address: 64h) / P/N: 8-759-691-88 (SB#: V4216) }
MID-XA Micro (MASK type): MB94918RPF-G-128-BND, MID-XA Software: Version 03/30/00, (P/N: 8-759-689-66)
MID-XA Micro (MASK type): MB94918RPF-G-130-BND, MID-XA Software: Version 04/20/00, (P/N: 8-759-691-88)

Register No & Name		Control Register Function & Link	Register Name (Software)	Data Type	Data Range	Data Initial/Average Setting (32V&36V CRTs)						
						MID Mode: Single		MID Mode: P&P & Favorite			MID Mode: Freeze	
						YC 480i	YPbPr 480i	YC 480i	YPbPr 480i	YC 480i-(R)	YC 480i	YPbPr 480i
0	**DRHP**	Horizontal position of the active display area (DRC-in)	drc_hactv_pos		0~255	120	116	131	129	137	138	136
1	**DRHS**	Hsize of the active display area (DRC-in)	drc_hactv_siz		0~255	174	174	167	167	168	165	165
2	**DRVP**	Vposition of the active display area (DRC-in)	drc_vactv_pos		0~63	38	38	53	53	53	53	53
3	**DRVS**	Vertical size of the active display area (DRC-in)	drc_vactv_siz		0~255	120	120	112	112	112	112	112

Note:

DX1A SERVICE LIST (#12): MID-3 (VDO-in Data) (Part-1/2)

Device Name: CXD9509AQ { MID-XA / Fujitsu & SONY } / IC3408 (B-board) / P/N: 8-759-672-57 (SBorSD#: NA)
Slave Address: 2Eh { Controlled through MID-XA Micro (IC3090/B-board, Slave Address: 64h) / P/N: 8-759-691-88 (SB#: V4216) }
MID-XA Micro (MASK type): MB94918RPF-G-128-BND, MID-XA Software: Version 03/30/00, (P/N: 8-759-689-66)
MID-XA Micro (MASK type): MB94918RPF-G-130-BND, MID-XA Software: Version 04/20/00, (P/N: 8-759-691-88)

Register No & Name		Control Register Function & Link	Register Name (Software)	Data Type	Data Range	Data Initial/Average Setting (32V&36V CRTs)				Comment
						MID Mode: Single				
							YPbPr 480P		Dummy 480i	Dummy-480i settings are used for No Signal cases. These settings continue to the next page.
0	**VDHP**	Horizontal position of the active display area (VDO-in)	vdo_hactv_pos		0~255		122		179	
1	**VDHS**	Horizontal pixel size of the active display area (VDO-in)	vdo_hactv_pos		0~255		159		199	
2	**VDVE**	Vertical even position of the active display area (VDO-in)	vdo_vactv_evn		0~63		39		24	
3	**VDVS**	Vertical line size of the active display area (VDO-in)	vdo_vactv_pos		0~255		129		56	
						YC 480i	YPbPr 480P	YPbPr 1080i	Dummy 480i	
4	**VDVO**	Vertical odd position of the active display area (VDO-in)	vdo_vactv_odd		0~3	0	0	0	0	
5	**VCPO**	Clamp pulse output timing (VDO-in)	vdo_clp_pos		0~255	95	70	40	90	
6	**VCWD**	Clamp pulse width (VDO-in)	vdo_clp_wdt		0~7	3	3	3	3	
7	**VYCD**	Analog input YC delay (VDO-in)	vdo_yc_delay		0~63	0	0	0	0	
							YPbPr 480P	YPbPr 1080i		
8	**VSTP**	PD stop line count of external PLL (VDO-in)	vdo_pll_stop		0~255		119	160		
9	**VSTT**	PD start line count of external PLL (VDO-in)	vdo_pll_strt		0~15		7	0		
						MID Mode: All (Single & P&P & Favorite)				
10	**VHSC**	Horizontal sync cycle (VDO-in)	vdo_hsync_cyc		0~255	130				

Note:

DX1A SERVICE LIST (#12): MID-3 (VDO-in Data) (Part-2/2)

Register No & Name	Data Initial Setting (32V&36V CRTs)				Data Initial Setting (32V&36V CRTs)				Comment
	MID Mode: P&P / Favorite				MID Mode: FREEZE				
	YC 480i	YPbPr 480P	YPbPr 1080i	Dummy 480i		YPbPr 480P	YPbPr 1080i	Dummy 480i	Dummy-480i settings are used for No Signal cases.
#0 **VDHP (cont.)**	197	127	91	179		131	98	179	
#1 **VDHS (cont.)**	219	154	151	199		153	149	199	
#2 **VDVE (cont.)**	24	53	37	24		53	37	24	
#3 **VDVS (cont.)**	56	112	126	56		112	126	56	

Note:

DX1A SERVICE LIST (#13): MID5 (Picture Data: MIDE) (Part-1/4)

Device Name: CXD9509AQ { MID-XA / Fujitsu & SONY } / IC3408 (B-board) / P/N: 8-759-672-57 (SBorSD#: NA)
Slave Address: 2Eh { Controlled through MID-XA Micro (IC3090/B-board, Slave Address: 64h) / P/N: 8-759-691-88 (SB#: V4216) }

MID-XA Micro (MASK type): MB94918RPF-G-128-BND, MID-XA Software: Version 03/30/00, (P/N: 8-759-689-66)
MID-XA Micro (MASK type): MB94918RPF-G-130-BND, MID-XA Software: Version 04/20/00, (P/N: 8-759-691-88)

Register No & Name		Control Register Function & Link	Register Name (Software)	Data Type	Data Range	Data Initial/Average Setting (32V&36V CRTs)				Data Initial/Average Setting (32V&36V CRTs)			
		Settings for P&P (Main)				UHF/VHF & CVideo				YPbPr-480i (DVD)			
						Pro	Movie	Standard	Vivid	Pro	Movie	Standard	Vivid
0	**POP**	Selection of service data tables (Table #: 0~15)			0~15	0	1	2	3	4	5	6	7
1	**MHLY**	Y coefficient code of Horizontal LPF (M)	m_hlpf_ycoef		0~3	1	1	1	1	1	1	1	1
2	**MHLC**	C coefficient code of Horizontal LPF (M)	m_hlpf_ccoef		0~3	3	3	3	3	3	3	3	3
3	**MVLY**	Y coefficient code of Vertical LPF (M)	m_vlpf_ycoef		0~3	0	0	0	0	0	0	0	0
4	**MVLC**	C coefficient code of Vertical LPF (M)	m_vlpf_ccoef		0~3	0	0	0	0	0	0	0	0
5	**MHYR**	Y coreing code of horizontal enhancement (M)	m_henh_ycore		0~3	0	0	0	0	0	0	0	0
6	**MHYL**	Y cliping code of horizontal enhancement (M)	m_henh_yclip		0~3	1	1	1	1	1	1	1	1
7	**MHYE**	Y level code of horizontal enhancement (M)	m_henh_yenh		0~7	4	0	0	0	3	0	0	0
8	**MHYO**	Y coefficient code of horizontal enhancement (M)	m_henh_ycof		0, 1	1	1	1	1	1	1	1	1
9	**MHCR**	C coreing code of horizontal enhancement (M)	m_henh_ccore		0~3	0	0	0	0	0	0	0	0
10	**MHCL**	C cliping code of horizontal enhancement (M)	m_henh_cclip		0~3	1	1	1	1	1	1	1	1
11	**MHCE**	C level code of horizontal enhancement (M)	m_henh_cenh		0~7	0	0	0	0	0	0	0	0
12	**MHCO**	C coefficient code of horizontal enhancement (M)	m_henh_ccof		0, 1	1	1	1	1	1	1	1	1
13	**MVYR**	Y coreing code of vertical enhancement (M)	m_venh_ycore		0~3	0	0	0	0	0	0	2	2
14	**MVYL**	Y cliping code of vertical enhancement (M)	m_venh_yclip		0~3	1	1	1	1	1	1	1	1
15	**MVYE**	Y level code of vertical enhancement (M)	m_venh_yenh		0~7	0	0	0	0	0	0	2	5
16	**MVCR**	C coreing code of vertical enhancement (M)	m_venh_ccore		0~3	0	0	0	0	0	0	0	0
17	**MVCL**	C cliping code of vertical enhancement (M)	m_venh_cclip		0~3	1	1	1	1	1	1	1	1
18	**MVCE**	C level code of vertical enhancement (M)	m_venh_cenh		0~7	0	0	0	0	0	0	0	0

Note:

DX1A SERVICE LIST (#13): MID-5 (Picture Data: MIDE) (Part-2/4)

Register No & Name	Data Initial/Average Setting (32V&36V CRTs)				Data Initial/Average Setting (32V&36V CRTs)				Comment
	YPbPr-480p				YPbPr-1080i				
	Pro	Movie	Standard	Vivid	Pro	Movie	Standard	Vivid	
#0 **POP (cont.)**	8	9	10	11	12	13	14	15	
#1 **MHLY (cont.)**	1	1	1	1	1	1	1	1	
#2 **MHLC (cont.)**	3	3	3	3	3	3	3	3	
#3 **MVLY (cont.)**	0	0	0	0	0	0	0	0	
#4 **MVLC (cont.)**	0	0	0	0	0	0	0	0	
#5 **MHYR (cont.)**	0	0	0	0	0	0	0	0	
#6 **MHYL (cont.)**	1	1	1	1	1	1	1	1	
#7 **MHYE (cont.)**	4	0	0	0	4	0	0	0	
#8 **MHYO (cont.)**	1	1	1	1	1	1	1	1	
#9 **MHCR (cont.)**	0	0	0	0	0	0	0	0	
#10 **MHCL (cont.)**	1	1	1	1	1	1	1	1	
#11 **MHCE (cont.)**	0	0	0	0	0	0	0	0	
#12 **MHCO (cont.)**	1	1	1	1	1	1	1	1	
#13 **MVYR (cont.)**	0	0	2	2	0	0	0	0	
#14 **MVYL (cont.)**	1	1	1	1	1	1	1	1	
#15 **MVYE (cont.)**	0	0	2	5	0	0	0	0	
#16 **MVCR (cont.)**	0	0	0	0	0	0	0	0	
#17 **MVCL (cont.)**	1	1	1	1	1	1	1	1	
#18 **MVCE (cont.)**	0	0	0	0	0	0	0	0	

Note:

DX1A SERVICE LIST (#13): MID-5 (Picture Data: MIDE) (Part-3/4)

Register No.&Name		Control Register Function & Link	Register Name (Software)	Data Type	Data Range	Data Initial/Average Setting (32V&36V CRTs)				Data Initial/Average Setting (32V&36V CRTs)			
		Settings for P&P (Sub)				UHF/VHF & CV				YPbPr-480i (DVD)			
						Pro	Movie	Standard	Vivid	Pro	Movie	Standard	Vivid
0	**POP**	Selection of service data tables (Table #: 0~15)			0~15	0	1	2	3	4	5	6	7
19	**SHLY**	Y coefficient code of Horizontal LPF (S)	s_hlpf_ycoef		0~7	0	0	0	0	0	0	0	0
20	**SHLC**	C coefficient code of Horizontal LPF (S)	s_hlpf_ccoef		0~7	0	0	0	0	0	0	0	0
21	**SVLY**	Y coefficient code of Vertical LPF (S)	s_vlpf_ycoef		0~7	0	0	0	0	0	0	0	0
22	**SVLC**	C coefficient code of Vertical LPF (S)	s_vlpf_ccoef		0~7	0	0	0	0	0	0	0	0
23	**SHYR**	Y coreing code of horizontal enhancement (S)	s_henh_ycore		0~3	0	0	0	0	0	0	0	0
24	**SHYL**	Y cliping code of horizontal enhancement (S)	s_henh_yclip		0~3	0	0	0	0	0	0	0	0
25	**SHYE**	Y level code of horizontal enhancement (S)	s_henh_yenh		0~7	0	0	0	0	0	0	0	0
26	**SHYO**	Y coefficient code of horizontal enhancement (S)	s_henh_ycof		0, 1	0	0	0	0	0	0	0	0
27	**SHCR**	C coreing code of horizontal enhancement (S)	s_henh_ccore		0~3	0	0	0	0	0	0	0	0
28	**SHCL**	C cliping code of horizontal enhancement (S)	s_henh_cclip		0~3	0	0	0	0	0	0	0	0
29	**SHCE**	C level code of horizontal enhancement (S)	s_henh_cenh		0~7	0	0	0	0	0	0	0	0
30	**SHCO**	C coefficient code of horizontal enhancement (S)	s_henh_ccof		0, 1	0	0	0	0	0	0	0	0
31	**SVYR**	Y coreing code of vertical enhancement (S)	s_venh_ycore		0~3	0	0	0	0	0	0	0	0
32	**SVYL**	Y cliping code of vertical enhancement (S)	s_venh_yclip		0~3	0	0	0	0	0	0	0	0
33	**SVYE**	Y level code of vertical enhancement (S)	s_venh_yenh		0~7	0	0	0	0	0	0	0	0
34	**SVCR**	C coreing code of vertical enhancement (S)	s_venh_ccore		0~3	0	0	0	0	0	0	0	0
35	**SVCL**	C cliping code of vertical enhancement (S)	s_venh_cclip		0~3	0	0	0	0	0	0	0	0
36	**SVCE**	C level code of vertical enhancement (S)	s_venh_cenh		0~7	0	0	0	0	0	0	0	0

DX1A SERVICE LIST (#13): MID-5 (Picture Data: MIDE) (Part-4/4)

Register No.&Name	Data Initial/Average Setting (32V&36V CRTs)				Data Initial/Average Setting (32V&36V CRTs)				Comment
	YPbPr-480p				YPbPr-1080i				
	Pro	Movie	Standard	Vivid	Pro	Movie	Standard	Vivid	
#0 **POP (cont.)**	8	9	10	11	12	13	14	15	
#19 **SHLY (cont.)**	0	0	0	0	0	0	0	0	
#20 **SHLC (cont.)**	0	0	0	0	0	0	0	0	
#21 **SVLY (cont.)**	0	0	0	0	0	0	0	0	
#22 **SVLC (cont.)**	0	0	0	0	0	0	0	0	
#23 **SHYR (cont.)**	0	0	0	0	0	0	0	0	
#24 **SHYL (cont.)**	0	0	0	0	0	0	0	0	
#25 **SHYE (cont.)**	0	0	0	0	0	0	0	0	
#26 **SHYO (cont.)**	0	0	0	0	0	0	0	0	
#27 **SHCR (cont.)**	0	0	0	0	0	0	0	0	
#28 **SHCL (cont.)**	0	0	0	0	0	0	0	0	
#29 **SHCE (cont.)**	0	0	0	0	0	0	0	0	
#30 **SHCO (cont.)**	0	0	0	0	0	0	0	0	
#31 **SVYR (cont.)**	0	0	0	0	0	0	0	0	
#32 **SVYL (cont.)**	0	0	0	0	0	0	0	0	
#33 **SVYE (cont.)**	0	0	0	0	0	0	0	0	
#34 **SVCR (cont.)**	0	0	0	0	0	0	0	0	
#35 **SVCL (cont.)**	0	0	0	0	0	0	0	0	
#36 **SVCE (cont.)**	0	0	0	0	0	0	0	0	

DX1A SERVICE LIST (#14): On-Screen Display (OSD)

Device Name: M306V2ME-150FP (V1.0) or M306V2ME-151FP (V2.0) { System Micro (MASK type) / Mitsubishi } / IC701 (A-board)
Slave Address: 60h

System Micro (MASK type): M306V2ME-150FP, Sys-Software: Version 1.0 (used with Patch-B), P/N: 8-759-680-77 (SB#: V9091)
System Micro (MASK type): M306V2ME-151FP, Sys-Software: Version 2.0 (used with Patch-A), P/N: 8-759-699-34 (SB#: V9091)

Register No & Name		Control Register Function & Link	Data Type	Data Range	Data Initial/Average Setting (32V&36V CRTs)	Comment
0	**HPOS**	OSD horizontal position	C	0~255	23	C: Common data
1	**HPOF**	Horizontal position for Favorite mode	C	0~255	27 (while using V1.0-micros) 33 (while using V2.0-micros)	
2	**VPOS**	OSD vertical position	C	0~255	5	
3	**VPOT**	Vertical position for P&P (Twin) mode	C	0~255	32	

Note:

DX1A SERVICE LIST (#15): SNNR

Related Control Devices:

µPD64082 { 3D-Comb / NEC } / IC3501 (BC-board) / Slave Address: B8h

CXA2103Q { Chroma Decoder / SONY } / IC3048 (B-board) / Slave Address: 9Ah (Main)

CXA2150Q { CRT Driver / SONY } / IC201 (A-board) / Slave Address: 86h

Register No & Name		Control Register Function & Link	Data Type	Data Range	Data Initial/Average Setting 32V&36V CRTs				Comment
0	**SNNR**	SNNR data setting		0~3	0				
1	**SNFX**	Selection of SNNR data settings; 0: Set SNNR automatically according to WSLT value (read data) 1: Set SNNR manually in SNNR/ #0 SNNR	C	0, 1	0				C: Common data
					WSLT Data / Threthold Range				
2	**WSLT**	Noise level detection data thretholds for SNNR data (read data)		0~255	0~30	31~62	63~126	127~255	
		SNNR data used as the (-) offset settings			**SNNR Settings Based on WSL Data (- Offset Data)**				
		SNNR = 0/1/2/3 @ WSLT ≤ 0/31/63/127, respectively		0~3	0	1	2	3	
3	**CPFG**	Related to 3D-COMB (µPD64082) / #19 **YPFG** settings		------	0	1	2	3	
4	**CPFT**	Related to 3D-COMB (µPD64082) / #18 **YPFT** settings		------	0	0	0	0	
		SNNR data used as the direct settings		------					
5	**CCOR**	Related to 3D-COMB (µPD64082) / #20 **YHCO** settings		------	0	1	1	1	
6	**CHCG**	Related to 3D-COMB (µPD64082) / #21 **YHCG** settings		------	1	1	1	1	
		SNNR data used as the (-) offset settings							
7	**CAPG**	Related to 3D-COMB (µPD64082) / #16 **VAPG** settings		------	0	0	0	0	
8	**3SHP**	Related to CXA2103 / #6 **SHAP** settings		------	0	1	2	3	
9	**MIDD**	Related to CXA2150P-3 / #19 **MIDE** settings		------	0	1	2	3	
10	**5SHP**	Related to CXA2150P-4 / #4 **USHP** settings		------	0	1	3	4	
11	**5YF1**	Related to CXA2150P-3 / #10 **F1LV** settings		------	0	1	2	3	
12	**5CDS**	Related to CXA2150P-3 / #11 **CDSP** settings		------	0	0	0	0	
13	**5LTI**	Related to CXA2150P-3 / #12 **LTLV** settings		------	0	0	0	0	
14	**5CTI**	Related to CXA2150P-3 / #14 **CTLV** settings		------	0	0	0	0	
15	**5VML**	Related to CXA2150P-3 / #1 **UVML** settings		------	0	0	0	0	
		SNNR data used as the (+) offset settings			**SNNR Settings Based on WSL Data (+ Offset Data)**				
16	**5VMC**	Related to CXA2150P-3 / #3 **VMCR** settings		------	0	+ 1	+ 2	+ 3	

Note:
Please refer to the part numbers and SBorSD numbers given in the service list for these devices.

DX1A SERVICE LIST (#16): ID-1 Detection (ID1)

Device Name: CXD2085M { ID-1 Decoder / SONY } / IC3603 (B-board) / P/N: 8-752-395-13 (SD#: S98511B)
Slave Address: 40h

Register No	Name	Control Register Function & Link	Data Type	Data Range	Data Initial/Average Setting (32V&36V CRTs)	Comment
0	**XJGL**	XJGLK: Setting for memorizing or not the ID-1 detection status when the VTR in Fast Forward (FF) or Rewind (R W) mode	C	0, 1	0	C: Common data
1	**LNJI**	LNJ1: Setting for the multi/single-line ID-1 detection	C	0, 1	0	

Note:
Other servcie controls related to CXD2085 (IDSW & DATA) are lised in Service List (CXA2150P-4) for easier engineering adjustment.

DX1A SERVICE LIST (#17): Closed Caption Display & Parental Control (CCD&VCHIP)

Device Name: CXP85840A-039Q { CCD&Vchip Micro (MASK type) / SONY } / IC3602 (Main) & IC3601 (Sub) (B-board) / P/N: 8-752-916-40 (SD#: S97739B)
Slave Address: 68h (Main) & 6Ch (Sub)
CCD&Vchip Micro Software: Version 2.14

Register No	Name	Control Register Function & Link	Data Type	Data Range	Data Initial/Average Setting (32V&36V CRTs)	Comment
0	**HPRM**	Horizontal position of CCD (Main)	C	0~255	46	C: Common data
1	**HPRS**	Horizontal position of CCD (Sub)	C	0~255	46	
2	**RND**	OSD rounding control	C	0, 1	1	
3	**CCDI**	Interuption cointrol	C	0~7	3	
4	**CRIP**	CRI count & parity count	C	0~7	4	
5	**CRIT**	Charge/Discharge timing control for slice voltage level	C	0, 1	0	0: MASK-type micro, 1: OTP-type micro
6	**CHMK**	Horizontal mask width	C	0~63	42	
7	**FPOL**	Field polarity selection	C	0, 1	1	
8	**LANG**		C	0~3	0	
9	**DATA**	Switch for CCD service/test data	C	0, 1	0	
10	**VCHIP**	Selection of Vchip controls	C	0, 1	0	

Note:

DX1A SERVICE LIST (#18): OPTIONS (OP)

Device Name: M306V2ME-150FP (V1.0) or M306V2ME-151FP (V2.0) { System Micro (MASK type) / Mitsubishi } / IC701 (A-board)
Slave Address: 60h

System Micro (MASK type): M306V2ME-150FP, Sys-Software: Version 1.0 (used with Patch-B), P/N: 8-759-680-77 (SB#: V9091)
System Micro (MASK type): M306V2ME-151FP, Sys-Software: Version 2.0 (used with Patch-A), P/N: 8-759-699-34 (SB#: V9091)

Register No & Name		Control Register Function & Link	Data Type	Data Range	Data Initial/Average Setting (32V&36V CRTs)	Comment
0	**DLY1**	AC-RLY to MAIN-RLY timing = DLY1 x 50 ms	C	0~15	4	C: Common data
1	**DLY2**	Power-On Mute timing = DLY2 x 50 ms	C	0~31	12	
2	**DLY3**	DGC-RLY to MAIN-RLY timing = DLY3 x 50 ms	C	0~15	7	
3	**RAMW**	RAM monitor on/off	C	0, 1	0	

Note:

DX1A SERVICE LIST (#19): IDENTIFICATION (ID)

Device Name: M306V2ME-150FP (V1.0) or M306V2ME-151FP (V2.0) { System Micro (MASK type) / Mitsubishi } / IC701 (A-board)
Slave Address: 60h

System Micro (MASK type): M306V2ME-150FP, Sys-Software: Version 1.0 (used with Patch-B), P/N: 8-759-680-77 (SB#: V9091)
System Micro (MASK type): M306V2ME-151FP, Sys-Software: Version 2.0 (used with Patch-A), P/N: 8-759-699-34 (SB#: V9091)

Register No & Name		Control Register Function & Link	Data Type	Data Range	Data Initial/Average Setting (32V&36V CRTs)			Comment
		Shipping Destination-related Settings			**US**	**Canda**	**Latin**	
0	**ID0**	Selection of OSD languages & color systems		0~255	89	89	25	
1	**ID1**	Selection of composite & s-video inputs		0~255	127	127	127	
2	**ID2**	Selection of audio-related controls		0~255	239	239	239	
3	**ID3**	Selection of basic system settings		0~255	98	82	194	
4	**ID4**	Selection of basic system settings		0~255	203	203	251	
5	**ID5**	Selection of advanced system settings		0~255	177	177	177	
6	**ID6**	Selection of sub picture-related settings		0~255	54	54	54	
7	**ID7**	Selection of some reserved settings		0~255	24	24	88	

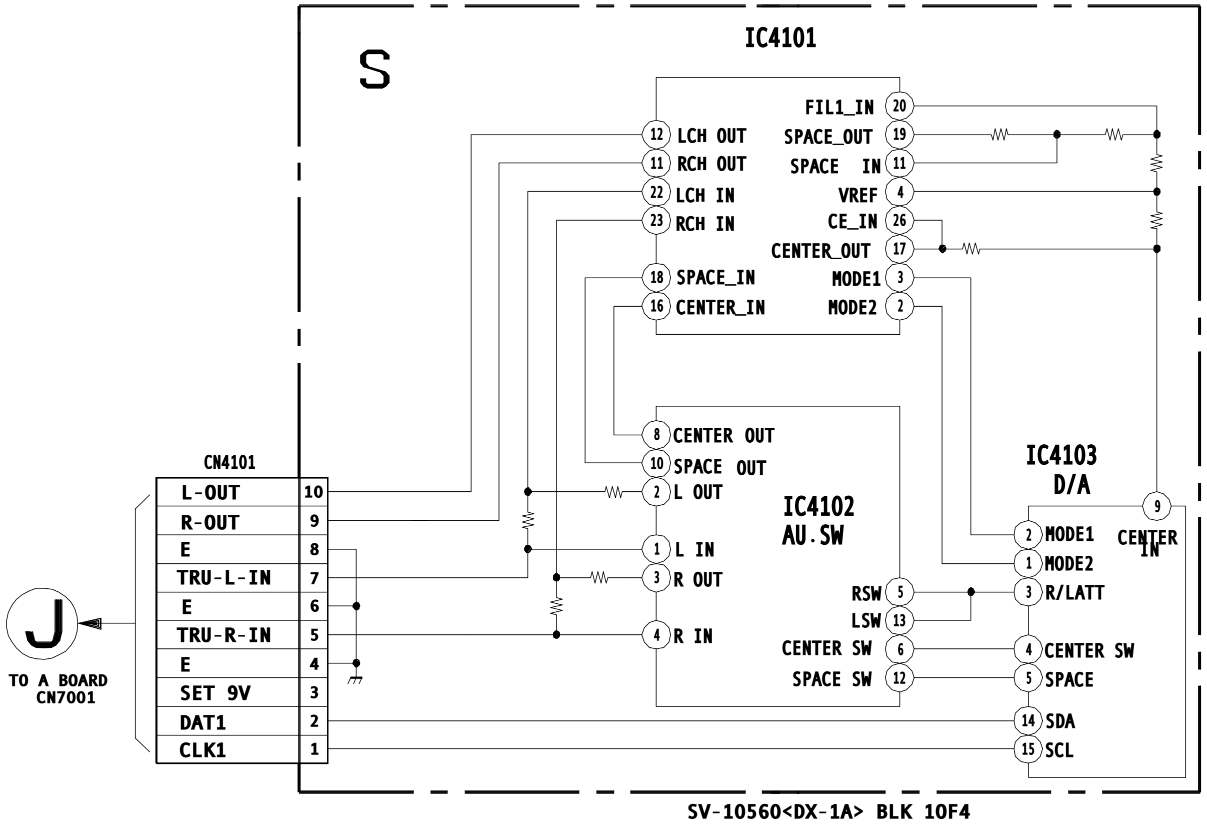
Note:
The system micro name, software&patch versions, and the status of NVM devices are displayed only when in this service catergory (#19): ID.

NOTES:

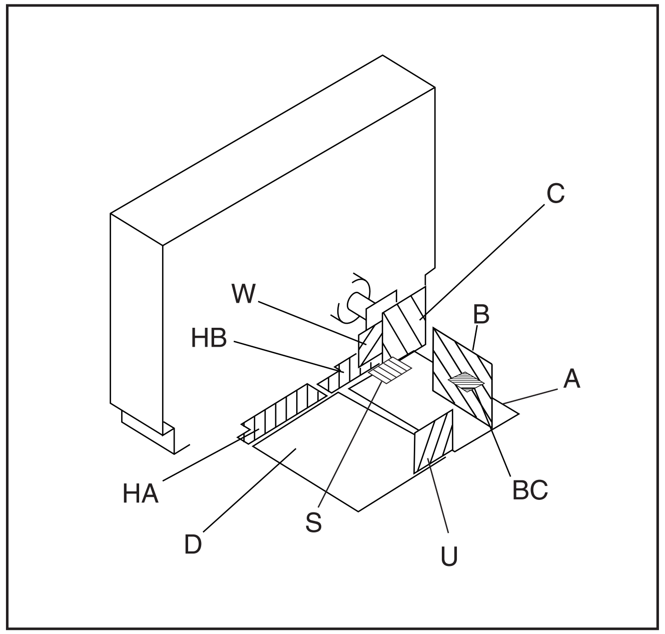
NOTES:

SECTION 6
DIAGRAMS

6.1 BLOCK DIAGRAM (1/4)


S
IC4101
FIL1_IN 20
12 LCH OUT
SPACE_OUT 19
11 RCH OUT
SPACE IN 11
22 LCH IN
VREF 4
23 RCH IN
CE_IN 26
CENTER_OUT 17
18 SPACE_IN
MODE1 3
16 CENTER_IN
MODE2 2
8 CENTER OUT
10 SPACE OUT
2 L OUT
IC4102
AU.SW
1 L IN
3 R OUT
4 R IN
RSW 5
LSW 13
CENTER SW 6
SPACE SW 12
IC4103
D/A
9 CENTER IN
2 MODE1
1 MODE2
3 R/LATT
4 CENTER SW
5 SPACE
14 SDA
15 SCL
CN4101
L-OUT 10
R-OUT 9
E 8
TRU-L-IN 7
E 6
TRU-R-IN 5
E 4
SET 9V 3
DAT1 2
CLK1 1
J
TO A BOARD
CN7001
SV-10560<DX-1A> BLK 1OF4

6-2. CIRCUIT BOARDS LOCATION


C
W
HB
B
A
HA
BC
D
S
U

- When replacing components identified by ◪ , make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by ⧓ and repeat the adjustment until the specified value is achieved. (Refer to safety adjustments on Page 23.)

- When replacing the part in below table, be sure to perform the related adjustment.

Part replaced(◪)	Adjustment(⧓)
D BOARD: D8004, D8014, IC6503, IC8001, IC8003, IC8004, R8016, R8021, R8028, R8041, R8042, R8044, R8072, R8073, R8074, R8077, R8078, R8080, R8081, R8082, R8091, R8095	D BOARD: RV8001 RV8002, RV8003

6-3. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

- All capacitors are in μF unless otherwise noted. pF : μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All electrolytics are in 50V unless otherwise specified.
- All resistors are in ohms.
  KΩ=1000Ω, MΩ=1000kΩ
- Indication of resistance, which does not have one for rating electrical power, is as follows.

  Pitch : 5mm
  Rating electrical power : $^1/_4$ W

- $^1/_4$ W in resistance, $^1/_{10}$ W and $^1/_8$ W in chip resistance.
- ⊞ : nonflammable resistor.
- ⊟ : fusible resistor.
- △ : internal component.
- ▭ : panel designation and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- Readings are taken with a color-bar signal input.
- Readings are taken with a 10MΩ digital multimeter.
- Voltages are DC with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- All voltages are in V.
  S : Measurement impossibillity.
- ━━ : B+line.
- ‐ ‐ ‐ V : B-line.
  (Actual measured value may be different).
- ⇨ : signal path. (RF)
- Circled numbers are waveform references.
- The components identified by ⧓ in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

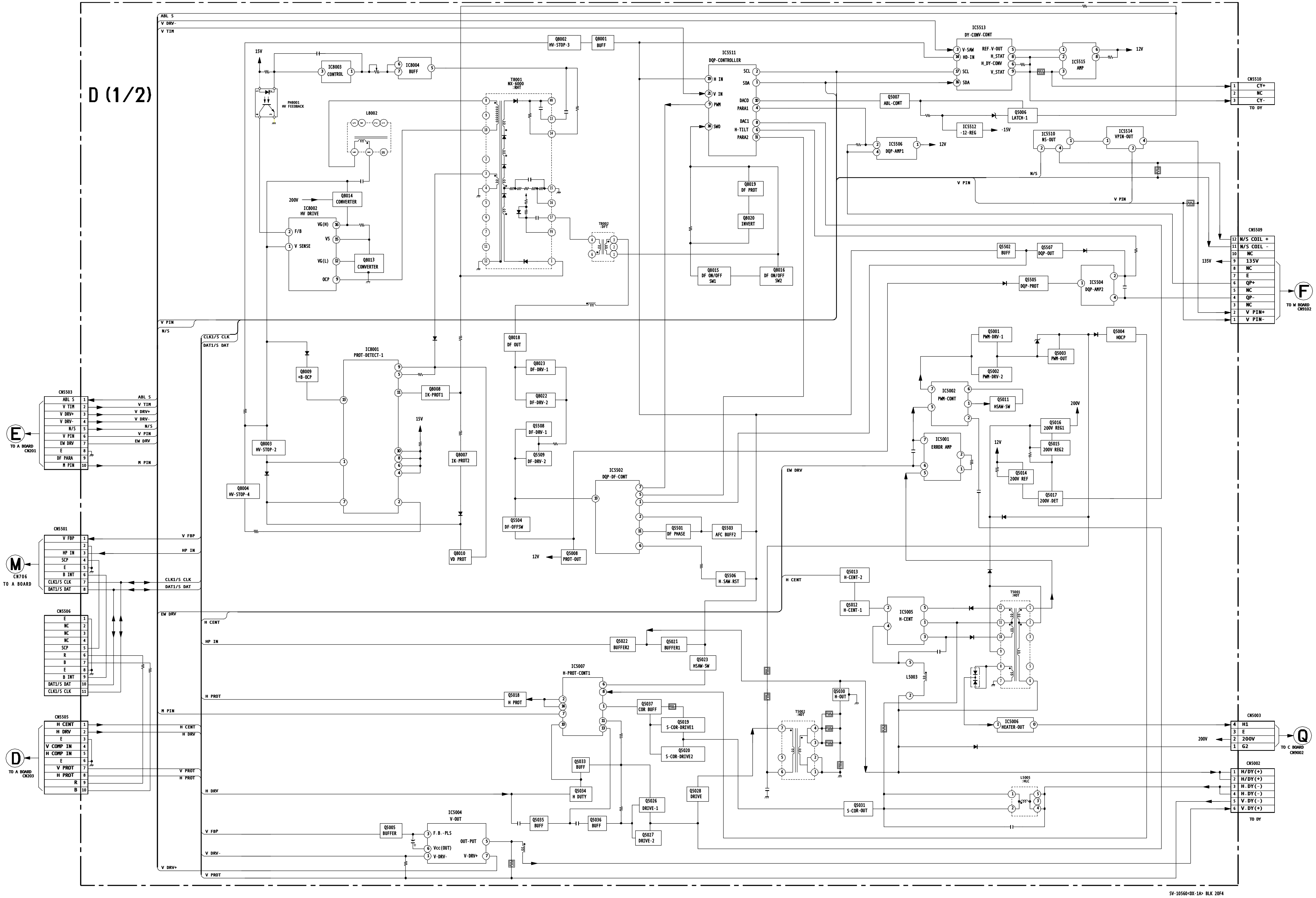
Reference information

RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RW	NONFLAMMABLE WIREWOUND
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
	: ※	ADJUSTMENT RESISTOR
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

The symbol ⊟ display is on the component side.
The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.
The symbol ⊟ indicate fast operating fuse.
Replace only with fuse of same rating as marked.

Les composants identifiés per un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.
Le symbole ⊟ indique une fusible a action rapide. Doit etre remplacee par une fusible de meme yaleur, comme maque.

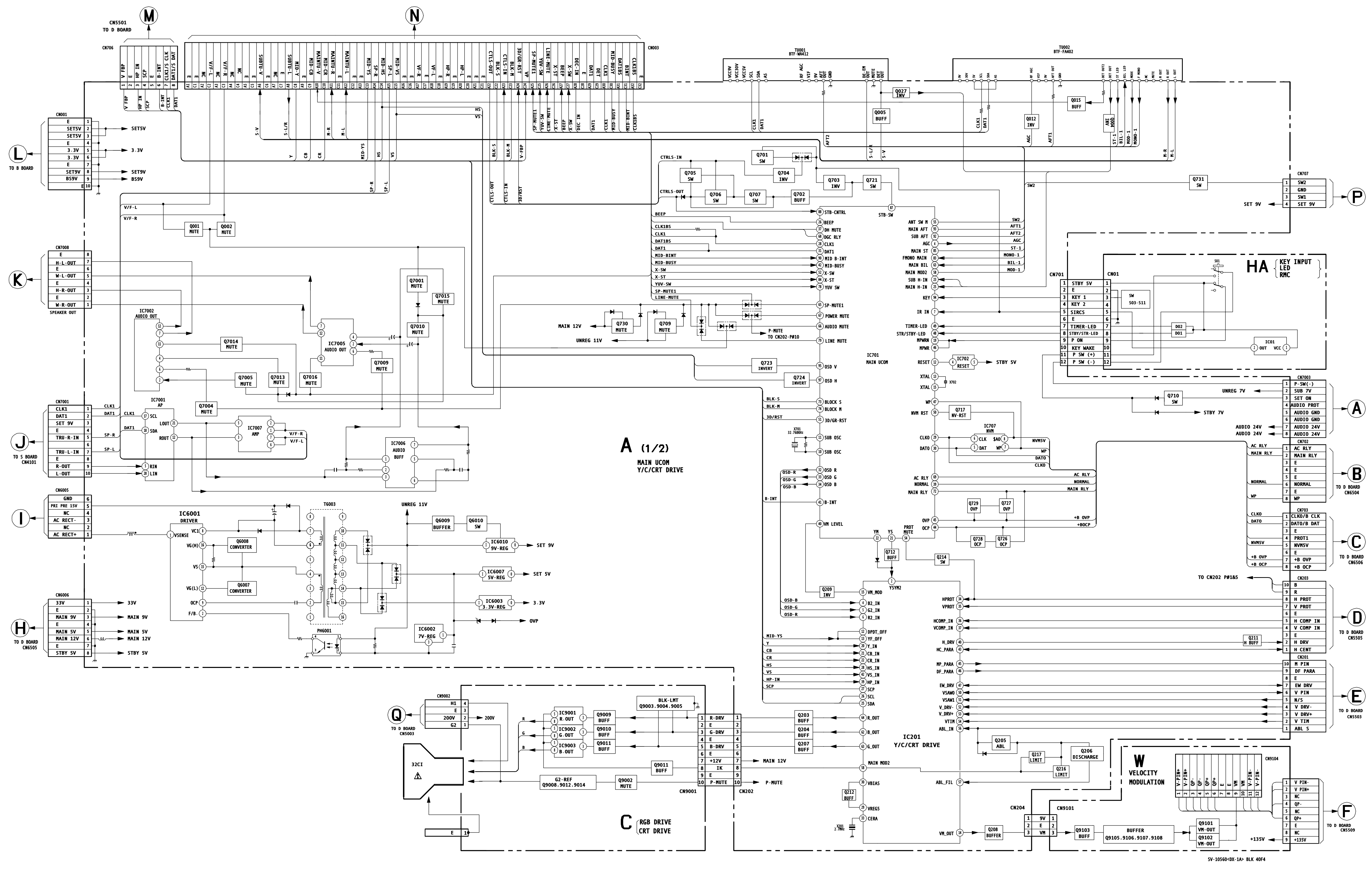
BLOCK DIAGRAM (2/4)


D (1/2)
IC8003 CONTROL
IC8004 BUFF
PH8001 HV FEEDBACK
L8002
T8001 NX-6000 :FBT
IC8002 HV DRIVE
Q8014 CONVERTER
Q8013 CONVERTER
Q8002 HV-STOP-3
Q8001 BUFF
T8002 :DFT
IC5511 DQP-CONTROLLER
IC5513 DY-CONV-CONT
IC5515 AMP
Q5007 ABL-CONT
Q5006 LATCH-1
IC5512 -12-REG
IC5506 DQP-AMP1
IC5510 NS-OUT
IC5514 VPIN-OUT
Q8019 DF PROT
Q8020 INVERT
Q8015 DF ON/OFF SW1
Q8016 DF ON/OFF SW2
Q5502 BUFF
Q5507 DQP-OUT
Q5505 DQP-PROT
IC5504 DQP-AMP2
CN5510 TO DY
CN5509
TO W BOARD CN9102
F
IC8001 PROT-DETECT-1
Q8009 +B-OCP
Q8008 IK-PROT1
Q8007 IK-PROT2
Q8003 HV-STOP-2
Q8004 HV-STOP-4
Q8010 VD PROT
Q8018 DF OUT
Q8023 DF-DRV-1
Q8022 DF-DRV-2
Q5508 DF-DRV-1
Q5509 DF-DRV-2
Q5504 DF-OFFSW
Q5008 PROT-OUT
IC5502 DQP-DF-CONT
Q5501 DF PHASE
Q5503 AFC BUFF2
Q5506 H.SAW RST
Q5001 PWM-DRV-1
Q5002 PWM-DRV-2
Q5003 PWM-OUT
Q5004 HOCP
IC5002 PWM-CONT
Q5011 HSAW-SW
IC5001 ERROR AMP
Q5016 200V REG1
Q5015 200V REG2
Q5014 200V REF
Q5017 200V.DET
CN5503
E
TO A BOARD CN201
CN5501
M
CN706 TO A BOARD
CN5506
CN5505
D
TO A BOARD CN203
Q5013 H-CENT-2
Q5012 H-CENT-1
IC5005 H-CENT
T5001 :HDT
L5003
Q5022 BUFFER2
Q5021 BUFFER1
Q5023 HSAW-SW
IC5007 H-PROT-CONT1
Q5018 H PROT
Q5037 COR BUFF
Q5019 S-COR-DRIVE1
Q5020 S-COR-DRIVE2
T5002 :HDT
Q5030 H-OUT
IC5006 HEATER-OUT
CN5003
TO C BOARD CN9002
Q
CN5002 TO DY
L5005 :HLC
Q5033 BUFF
Q5034 H DUTY
Q5026 DRIVE-1
Q5027 DRIVE-2
Q5028 DRIVE
Q5031 S-COR-OUT
Q5035 BUFF
Q5036 BUFF
Q5005 BUFFER
IC5004 V-OUT
SV-10560<DX-1A> BLK 2OF4

BLOCK DIAGRAM (3/4)

BC (Y/C SEP AUTO WIDE)
D (2/2)
U
HB
A (2/2) POWER SUPPLY
B (AV-SW MID XA MID-UCOM COMPONENT-I/F YCT-MAIN/YCT-SUB)
IC3008 YCT-MAIN
IC3002 YCT-SEL
IC3003 MAIN-CCD V CHIP
IC3110 YCT-SUB
IC3001 COMPONENT I/F
IC3201 AV-SW1
IC3202 AUDIO SW
IC3090 MID-UCOM
IC3404 SYNC SW
IC3410 D/A
IC3408 MID XA
IC3406 WRITE PLL
IC3305 WRITE PLL
IC3306 READ PLL
IC3301 SUB-SDRAM
IC3402 OAM-SDRAM
IC6501 MAIN DRIVER
TO A BOARD
TO N BOARD
TO HB BOARD
VIDEO 1
VIDEO 2
VIDEO 3
VIDEO 4
VIDEO 5
VIDEO 6

BLOCK DIAGRAM (4/4)

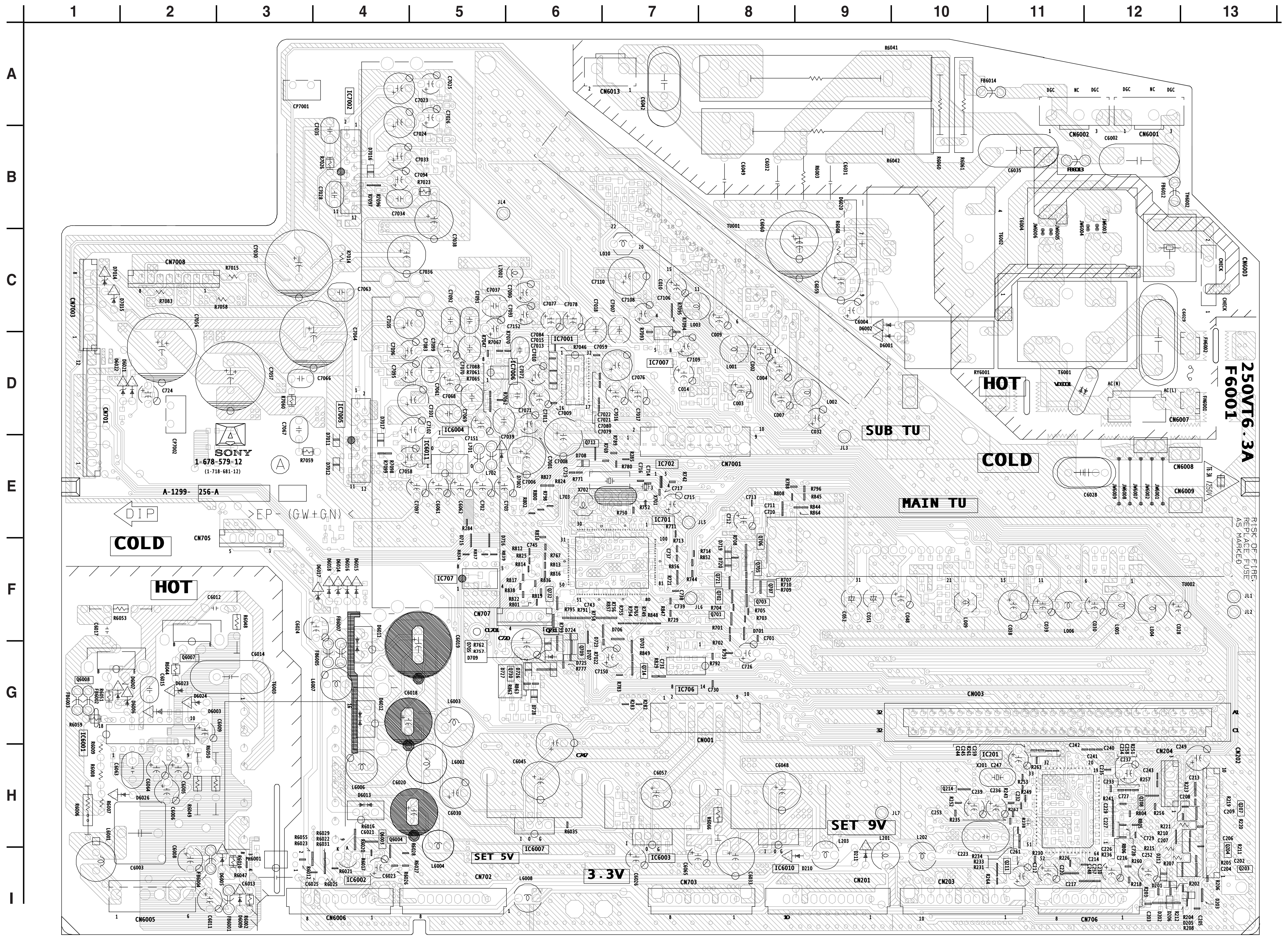

M
N
L
TO B BOARD
K
SPEAKER OUT
J
TO S BOARD CN6101
I
H
TO B BOARD CN5505
Q
TO B BOARD CN5503
A (1/2)
MAIN UCOM
Y/C/CRT DRIVE
C
RGB DRIVE
CRT DRIVE
HA
KEY INPUT
LED
RMC
W
VELOCITY
MODULATION
IC201
Y/C/CRT DRIVE
IC701
MAIN UCOM
IC6001
DRIVER
P
A
B
TO D BOARD CN6504
C
TO D BOARD CN6506
D
TO D BOARD CN5505
E
TO D BOARD CN5503
F
TO D BOARD CN5509

A BOARD LOCATOR LIST

DIODE		
	Component Side	Conductor Side
D004		G-8
D008		G-7
D203	J-13	
D205	J-13	
D208		A-12
D211	I-9	
D212	I-12	
D214		B-12
D215		B-12
D701	B-4	
D703	G-7	
D705	G-5	
D706	G-6	
D707	G-6	
D708	E-6	
D709	G-5	
D710		D-7
D711		D-7
D715	F-5	
D716	F-5	
D719	F-8	
D720	F-8	
D721		G-1
D722		G-1
D723	G-6	
D724	G-6	
D725	G-6	
D726	G-5	
D727	G-5	
D728	H-6	
D6001	D-9	
D6002	D-9	
D6003	H-2	
D6005	I-2	
D6009	J-3	
D6011	G-4	
D6012	H-4	
D6013	I-4	
D6014	F-4	
D6017	F-3	
D6018		D-3
D6020	B-9	
D6025		D-3
D7002	E-5	
D7003		F-6
D7004		F-6
D7005		F-6
D7009		H-4
D7010		H-4
D7011	E-4	
D7012	E-4	
D7013		F-6
D7014	C-1	
D7015	C-1	
D7016	B-4	
D7017	E-4	
D7103		E-4

IC		
	Component Side	Conductor Side
IC201	H-11	
IC701	F-6	
IC702	E-7	
IC707	F-5	
IC6001	H-11	
IC6002	J-4	
IC6003	I-7	
IC6007	I-6	
IC6010	I-8	
IC6011	E-4	
IC7001	D-6	
IC7002	A-4	
IC7005	E-3	
IC7006	D-5	
IC7007	D-7	
TRANSISTOR		
Q001		F-8
Q002		F-8
Q004		D-10
Q005		H-6
Q012		D-11
Q015		E-10
Q027		I-6
Q203	J-13	
Q204	I-13	
Q205		A-13
Q206		A-13
Q207	I-13	
Q208	I-12	
Q209		B-12
Q211	I-11	
Q212		B-11
Q214	H-10	
Q216		A-11
Q217		A-12
Q701	G-8	
Q702	G-8	
Q703	G-8	
Q704		D-8
Q705	F-8	
Q706	F-8	
Q707	F-8	
Q709	G-6	
Q710		G-2
Q712	E-6	
Q717		D-5
Q721	F-7	
Q723		E-8
Q724		E-8
Q726		C-5
Q727		C-6
Q728		C-6
Q729		D-6
Q730	G-5	
Q731	G-5	
Q6001		G-9
Q6002		G-10
Q6007	G-2	
Q6008	G-1	
Q6009		B-7
Q6010		A-8
Q7001		F-6
Q7004		I-4
Q7005		J-4
Q7009		G-4
Q7010		G-4
Q7013		I-4
Q7014		I-5
Q7015		F-4
Q7016		E-4

A [TUNER, CRT DRIVE, MAIN UCOM, POWER SUPPLY, AUDIO] COMPONENT SIDE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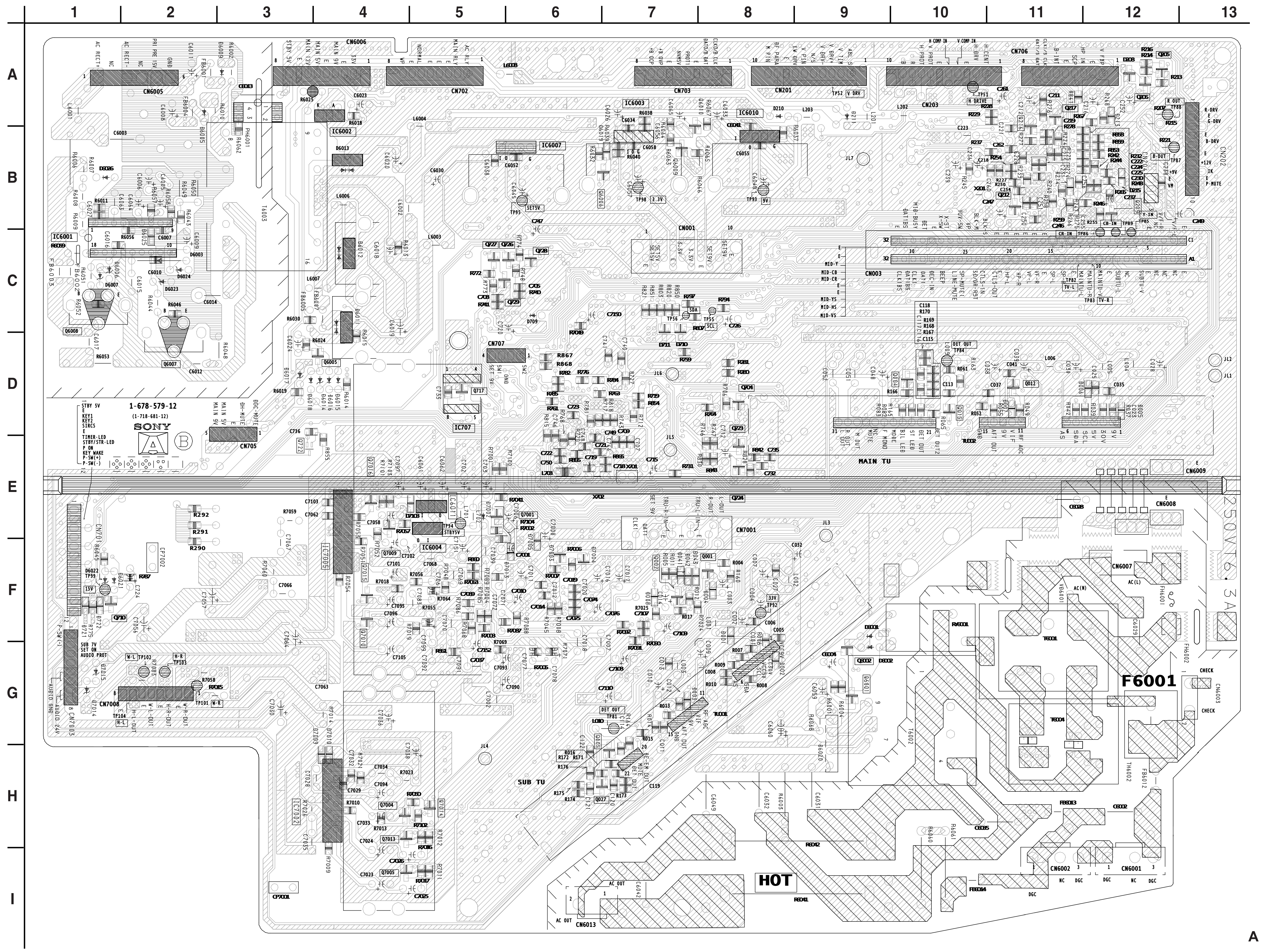
I
HOT
COLD
SUB TU
MAIN TU
COLD
HOT
250VT6.3A
F6001
SET 9V
SET 5V
3.3V
SONY
1-678-575-12
A-1299-256-A
DIP
EP (GW+GN)
IC701
IC6001
CN6001
CN201

A [TUNER, CRT DRIVE, MAIN UCOM, POWER SUPPLY, AUDIO]

CONDUCTOR SIDE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F
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1-678-579-12
SONY
A
B
MAIN TU
SUB TU
F6001
HOT

A BOARD IC VOLTAGE LIST

IC201			
pin	volt		
1	GND	32	3.0
2	0	33	1.6
3	GND	34	0
4	3.1	35	0
5	3.1	36	0.2
6	3.1	37	0
7	0	38	3.2
8	3.6	39	1.1
9	3.6	40	2.8
10	3.6	41	GND
11	0	42	0
12	0.5	43	3.8
13	0.5	44	GND
14	2.3	45	2.8
15	3.7	46	3.6
16	2.7	47	3.9
17	2.6	48	4.4
18	1.1	49	5.4
19	4.9	50	3.5
20	3.6	51	3.8
21	3.4	52	3.4
22	3.4	53	3.5
23	GND	54	1.0
24	NC	55	9.0
25	4.6	56	1.0
26	4.6	57	4.3
27	0.7	58	3.9
28	0	59	1.7
29	5.0	60	1.7
30	5.6	61	9.0
31	1.3	62	2.3
		63	2.5
		64	2.3

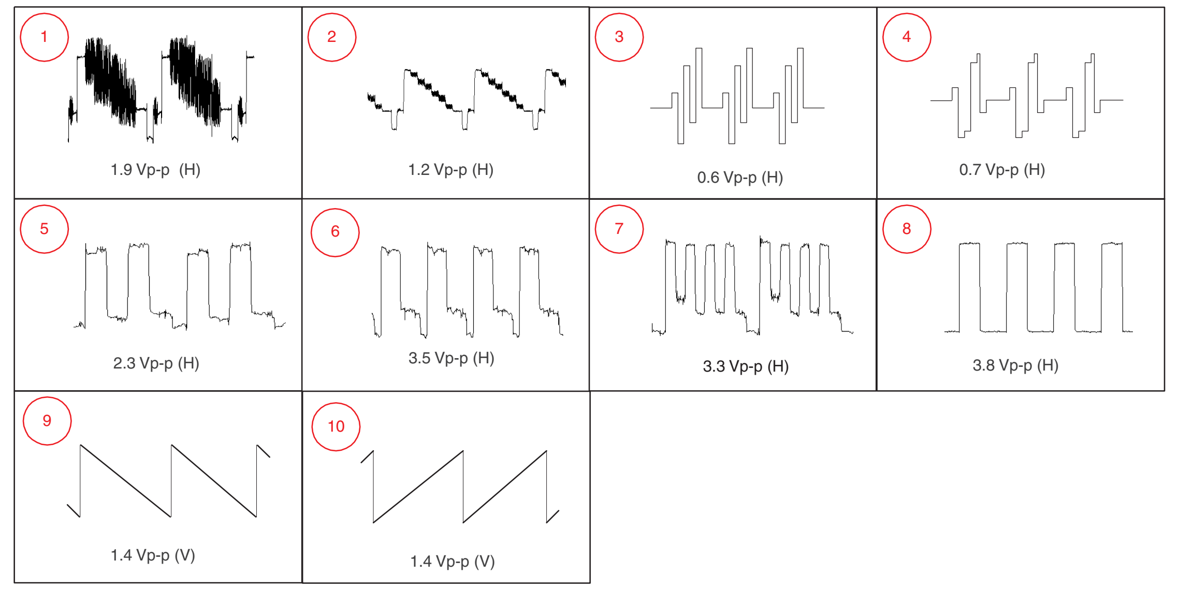
All voltages are in V

A BOARD TRANSISTOR VOLTAGE LIST

	B	C	E
Q001	0.4	0	GND
Q002	0.4	0	GND
Q004	4.6	1.1	5.0
Q005	4.3	9.0	3.6
Q012	0.1	7.5	GND
Q015	6.2	9.0	5.5
Q027	4.5	0	5.0
Q203	2.3	GND	3.2
Q204	2.5	GND	3.2
Q205	2.3	3.4	GND
Q206	3.4	4.1	3.5
Q207	2.3	GND	3.2
Q208	2.3	GND	3.2
Q209	0.8	2.2	GND
Q211	2.8	11.5	2.3
Q212	5.6	9.0	5.0
Q214	0	0	GND
Q216	4.5	GND	3.9
Q217	4.4	8.7	3.9

All voltages in V.

A BOARD WAVEFORMS (1 OF 3)



A BOARD LOCATOR LIST

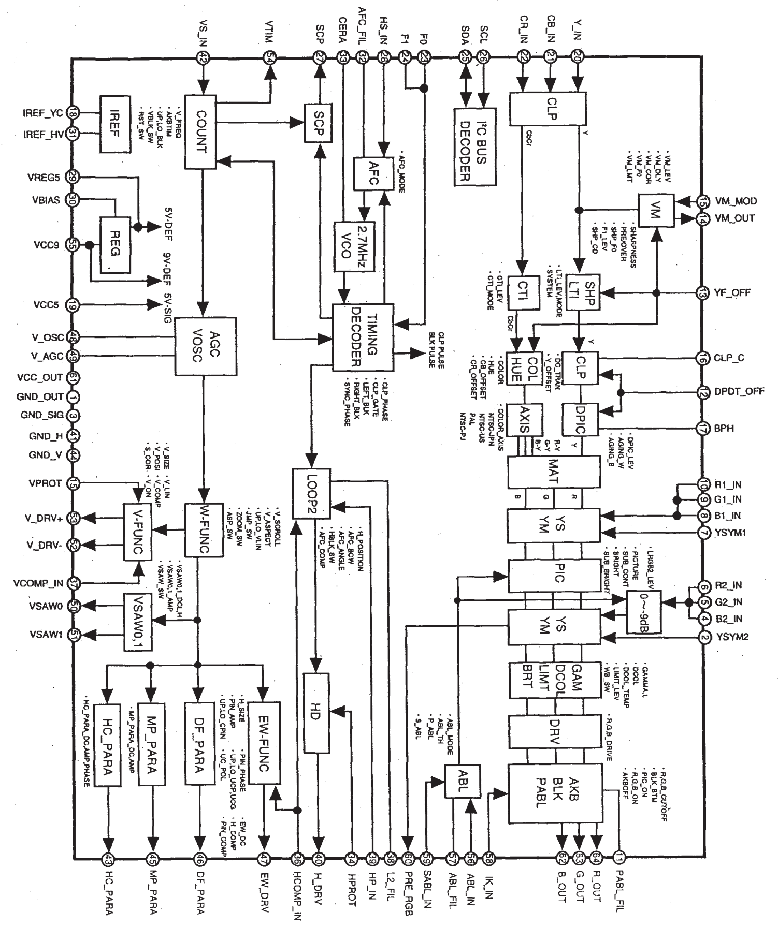
DIODE	A	B
D004		G-8
D008		G-7
D203	J-13	
D205	J-13	
D208		A-12
D211	I-9	
D212	I-12	
D214		B-12
D215		B-12
D701	B-4	
D703	G-7	
D705	G-5	
D706	G-6	
D707	G-6	
D708	E-6	
D709	G-5	
D710		D-7
D711		D-7
D715	F-5	
D716	F-5	
D719	F-8	
D720	F-8	
D721		G-1
D722		G-1
D723	G-6	
D724	G-6	
D725	G-6	
D726	G-5	
D727	G-5	
D728	H-6	
D6001	D-9	
D6002	D-9	
D6003	H-2	
D6005	I-2	
D6009	J-3	
D6011	G-4	
D6012	H-4	
D6013	I-4	
D6014	F-4	
D6017	F-3	
D6018		D-3
D6020	B-9	
D6025		D-3
D7002	E-5	
D7003		F-6
D7004		F-6
D7005		F-6
D7009		H-4
D7010		H-4
D7011	E-4	
D7012	E-4	
D7013		F-6
D7014	C-1	
D7015	C-1	
D7016	B-4	
D7017	E-4	
D7103		E-4

IC	A	B
IC201	H-11	
IC701	F-6	
IC702	E-7	
IC707	F-5	
IC6001	H-11	
IC6002	J-4	
IC6003	I-7	
IC6007	I-6	
IC6010	I-8	
IC6011	E-4	
IC7001	D-6	
IC7002	A-4	
IC7005	E-3	
IC7006	D-5	
IC7007	D-7	

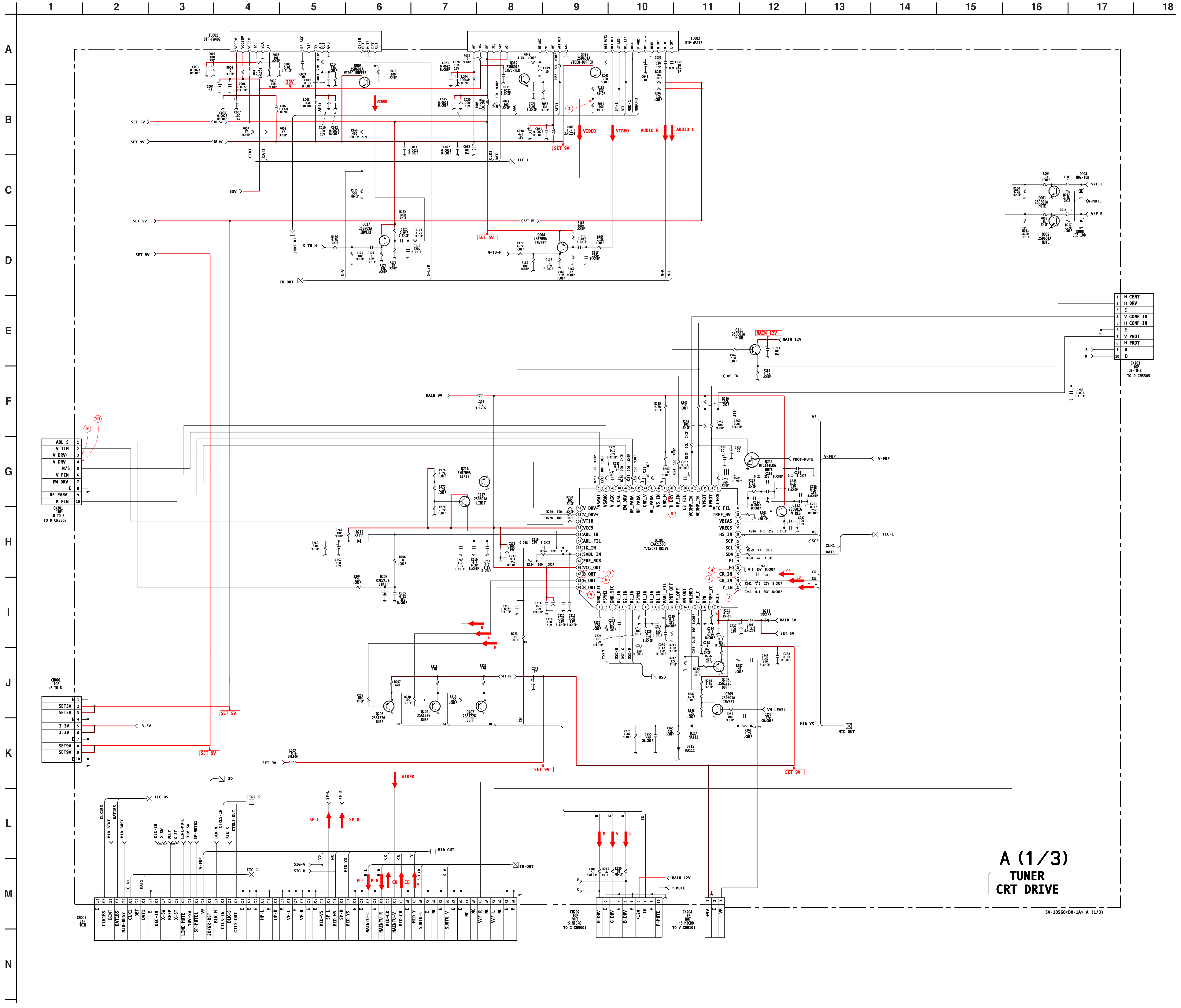
TRANSISTOR	A	B
Q001		F-8
Q002		F-8
Q004		D-10
Q005		H-6
Q012		D-11
Q015		E-10
Q027		I-6
Q203	J-13	
Q204	I-13	
Q205		A-13
Q206		A-13
Q207	I-13	
Q208	I-12	
Q209		B-12
Q211	I-11	
Q212		B-11
Q214	H-10	
Q216		A-11
Q217		A-12
Q701	G-8	
Q702	G-8	
Q703	G-8	
Q704		D-8
Q705	F-8	
Q706	F-8	
Q707	F-8	
Q709	G-6	
Q710		G-2
Q712	E-6	
Q717		D-5
Q721	F-7	
Q723		E-8
Q724		E-8
Q726		C-5
Q727		C-6
Q728		C-6
Q729		D-6
Q730	G-5	
Q731	G-5	
Q6001		G-9
Q6002		G-10
Q6007	G-2	
Q6008	G-1	
Q6009		B-7
Q6010		A-8
Q7001		F-6
Q7004		I-4
Q7005		J-4
Q7009		G-4
Q7010		G-4
Q7013		I-4
Q7014		I-5
Q7015		F-4
Q7016		E-4

A = Component Side
B = Conductor Side

A BOARD: IC CXA2150Q


IREF_YC
IREF_HV
VREG5
VBIAS
VCC9
VCC5
V_OSC
V_AGC
VCC_OUT
GND_OUT
GND_SIG
GND_H
GND_V
VPROT
V_DRV+
V_DRV-
VCOMP_IN
VSAW0
VSAW1

A BOARD SCHEMATIC DIAGRAM (1 of 3)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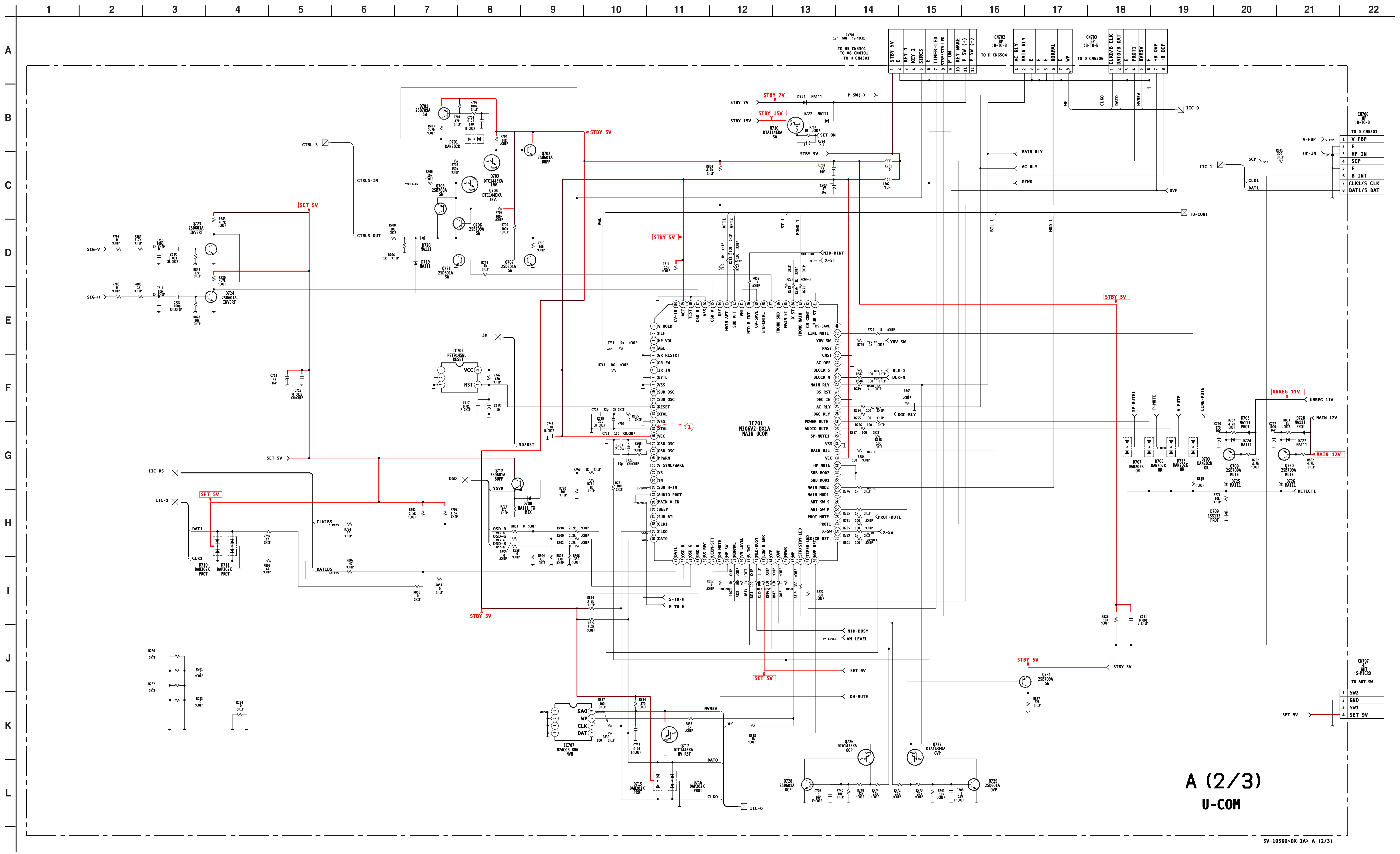
D
E
F
G
H
I
J
K
L
M
N
VIDEO
AUDIO R
AUDIO L
SET 5V
MAIN 12V
MAIN 9V
IC201
CXA2150Q
Y/C/CRT DRIVE
A (1/3)
TUNER
CRT DRIVE

A BOARD SCHEMATIC DIAGRAM (2 of 3)


A (2/3)
U-COM
IC701
M306V2-DX1A
MAIN-UCOM
IC702
IC707
CN706 8P :B-TO-B
TO D CN5501
V FBP
E
HP IN
SCP
E
B-INT
CLK1/S CLK
DAT1/S DAT
CN707
TO ANT SW
SW2
GND
SW1
SET 9V
STBY 5V
STBY 7V
STBY 15V
SET 5V
MAIN 12V
UNREG 11V
SIG-V
SIG-H
TV-CONT
OVP
SV-10560<DX-1A> A (2/3)

C BOARD LOCATION LIST

DIODE		
	Component	Conductor
D9001	B-6	
D9002		A-2
D9003	B-6	
D9005		A-5
D9006		C-5
D9007	C-3	
D9008	C-5	
D9009	D-5	
D9010	C-5	
D9013	C-5	
D9014	B-6	
D9015	A-6	
D9016	B-6	
D9017	B-6	

IC		
	Component	Conductor
IC9001	B-2	
IC9002	B-3	
IC9003	B-5	
TRANSISTOR		
	Component	Conductor
Q9001		A-2
Q9002	A-5	
Q9003		A-4
Q9004		A-4
Q9005		A-3
Q9008		B-1
Q9009		A-4
Q9010		A-4
Q9011		A-3
Q9012		B-1
Q9014	C-6	

A BOARD IC VOLTAGE LIST

IC701						IC702	
pin	volt					pin	volt
1	NC	33	0	67	0	1	NC
2	NC	34	0	68	0	2	GND
3	0	35	NC	69	7.3	3	GND
4	0	36	0	70	0	4	4.9
5	0	37	4.6	71	NC	5	4.9
6	0	38	0	72	6.3	IC707	
7	4.7	39	0	73	0	pin	volt
8	GND	40	0	74	0	1	GND
9	GND	41	2.3	75	GND	2	GND
10	NC	42	0	76	0	3	GND
11	NC	43	4.6	77	0	4	GND
12	4.9	44	2.8	78	0	5	4.6
13	2.3	45	0.1	79	0	6	4.6
14	GND	46	0	80	NC	7	5.0
15	2.4	47	4.6	81	0	8	5.0
16	4.9	48	5.0	82	0		
17	0	49	5.0	83	0		
18	0	50	0	84	0		
19	0	51	5.0	85	0		
20	2.8	52	0	86	NC		
21	0	53	3	87	0		
22	0	54	0	88	0		
23	0	55	0	89	0		
24	GND	56	0	90	0		
25	0	57	NC	91	0		
26	NC	58	0	92	0		
27	NC	59	0	93	0		
28	4.4	60	0	94	4.6		
29	4.9	61	0	95	4.6		
30	4.9	62	4.9	96	GND		
31	4.4	63	4.9	97	4.6		
32	0	64	GND	98	GND		
		65	0	99	4.9		
		66	NC	100	4.6		

All voltages are in V

C BOARD IC VOLTAGE LIST

IC9001		IC9002		IC9003	
pin	volt	pin	volt	pin	volt
1	3.5	1	3.5	1	3.5
2	12.0	2	12.0	2	12.0
3	3.5	3	3.5	3	3.5
4	GND	4	GND	4	GND
5	8.0	5	7.8	5	7.8
6	203.0	6	203.0	6	203.0
7	145.0	7	142.6	7	147.0
8	158.0	8	164.0	8	163.0
9	144.0	9	142.0	9	146.0

All voltages are in V

C BOARD TRANSISTOR VOLTAGE LIST

	B	C	E
Q9001	7.5	GND	3.6
Q9002	0.2	11.1	GND
Q9003	2.1	12.0	3.2
Q9004	2.1	12.0	3.2
Q9005	3.2	12.0	2.1
Q9008	5.4	12.0	4.8
Q9009	3.2	GND	3.9
Q9010	3.2	GND	4.0
Q9011	3.2	GND	3.9
Q9012	5.4	10.5	4.8
Q9014	11.7	450.0	11.1

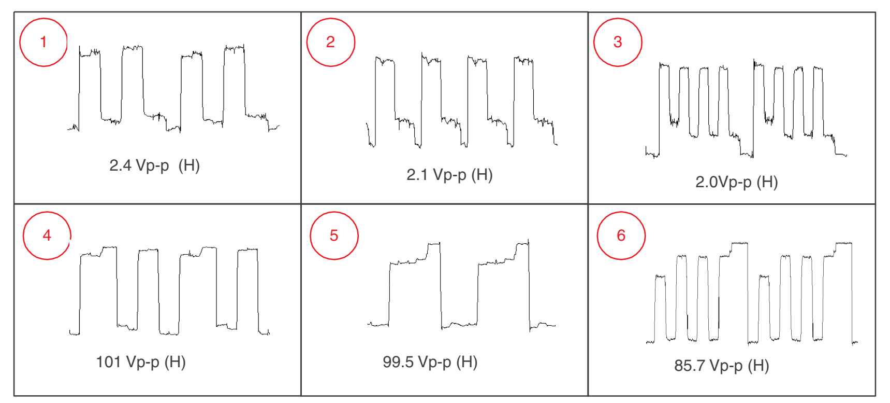
All voltages in V.

A BOARD TRANSISTOR VOLTAGE LIST

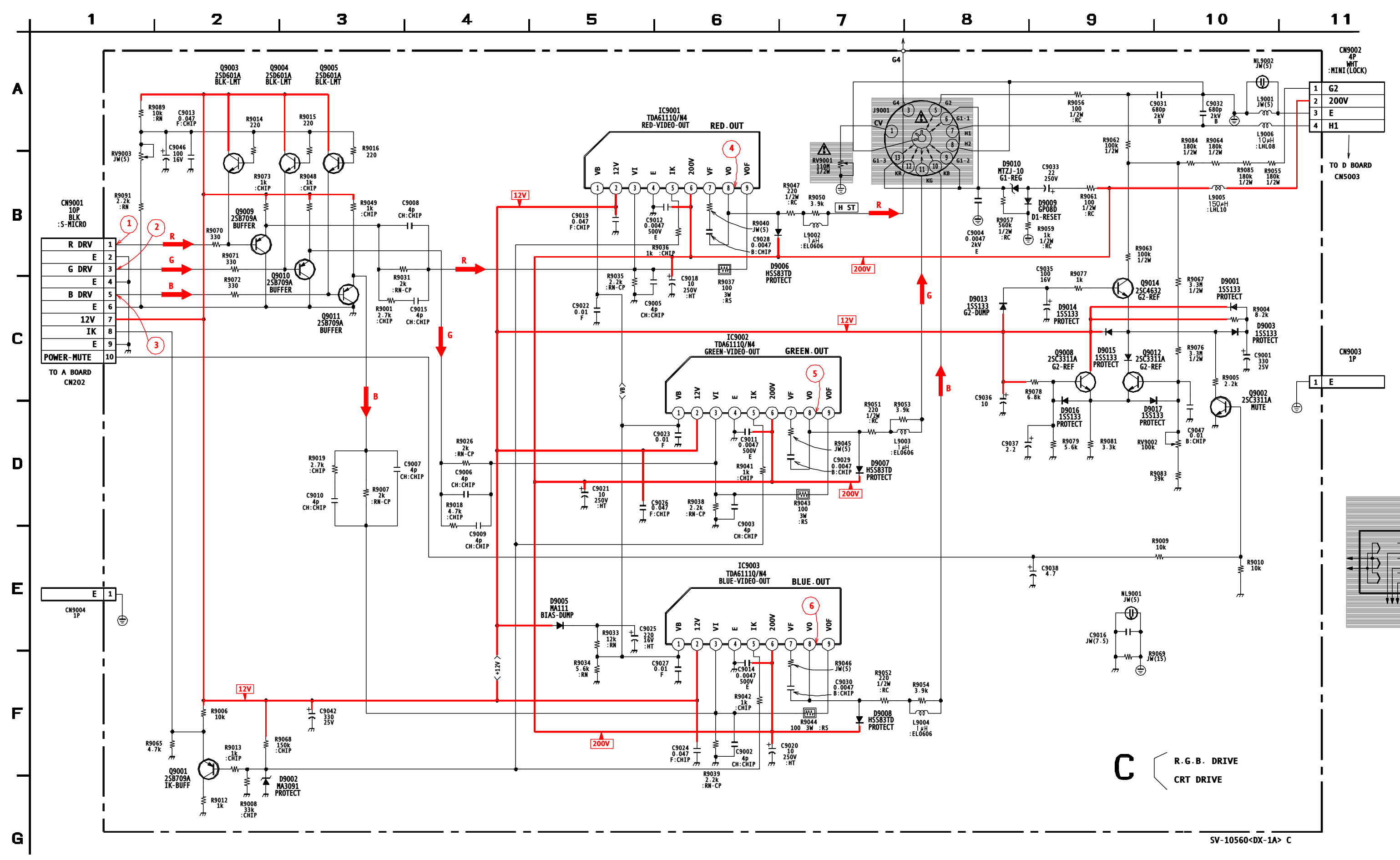
	B	C	E
Q701	4.7	4.7	5.0
Q702	0.1	5.0	0
Q703	4.6	5.0	GND
Q704	0	4.4	GND
Q705	5.0	0	0
Q706	5.0	0	0
Q707	0.5	0	GND
Q709	10.4	0.7	10.2
Q710	19.5	0	19.9
Q712	0	5.0	0.0
Q717	0	5.0	GND
Q719	0.6	4.5	GND
Q720	4.5	0	4.5
Q721	0	0	GND
Q723	0.2	4.6	GND
Q724	0.5	4.6	GND
Q731	0	0	5.0

All voltages in V.

C BOARD WAVEFORMS

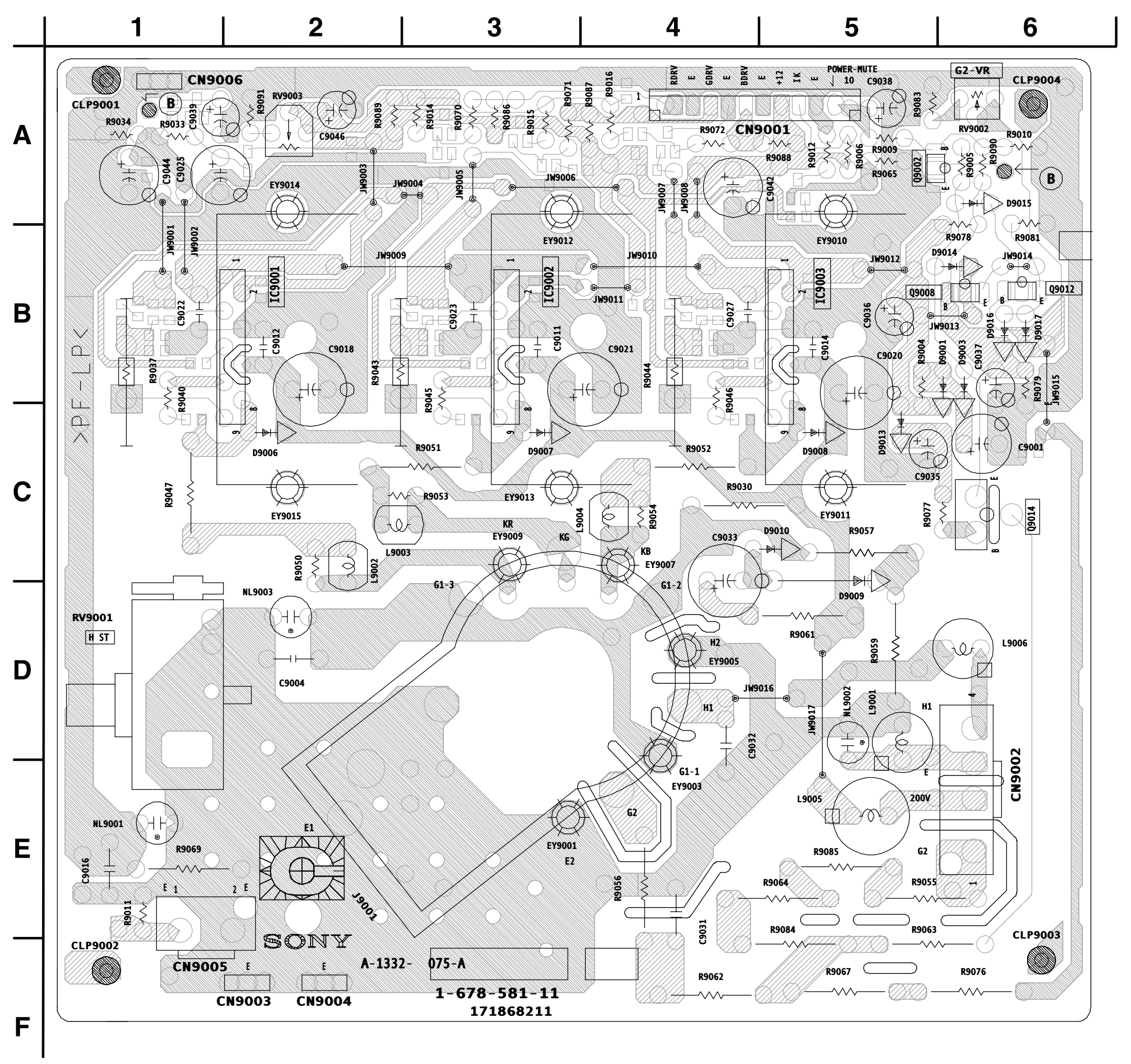


C BOARD SCHEMATIC DIAGRAM

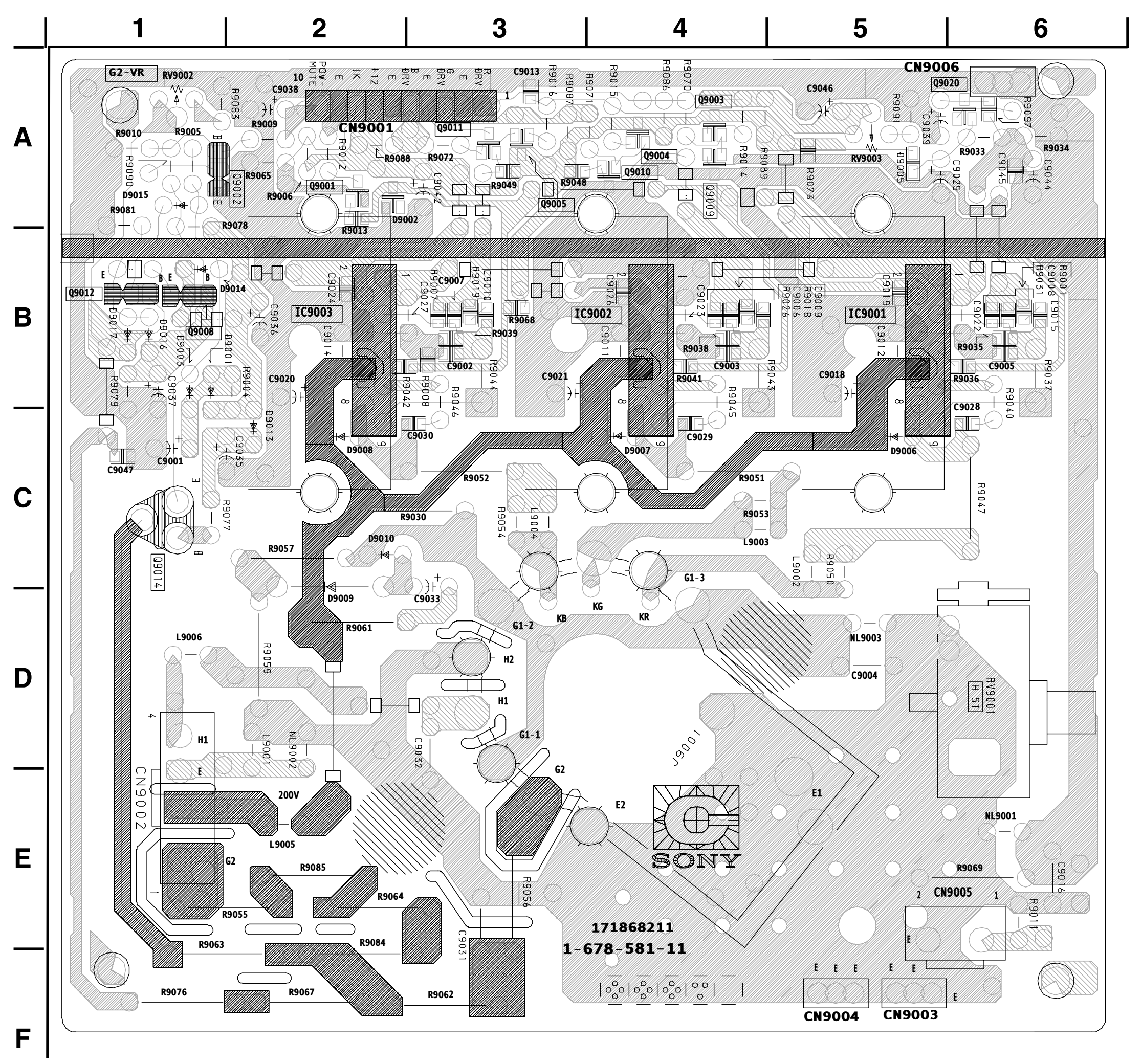

CN9001 10P BLK :S-MICRO
R DRV
E
G DRV
POWER MUTE
IC9001
IC9002
IC9003
C
R.G.B. DRIVE
CRT DRIVE

C [RGB DRIVE, CRT DRIVE]

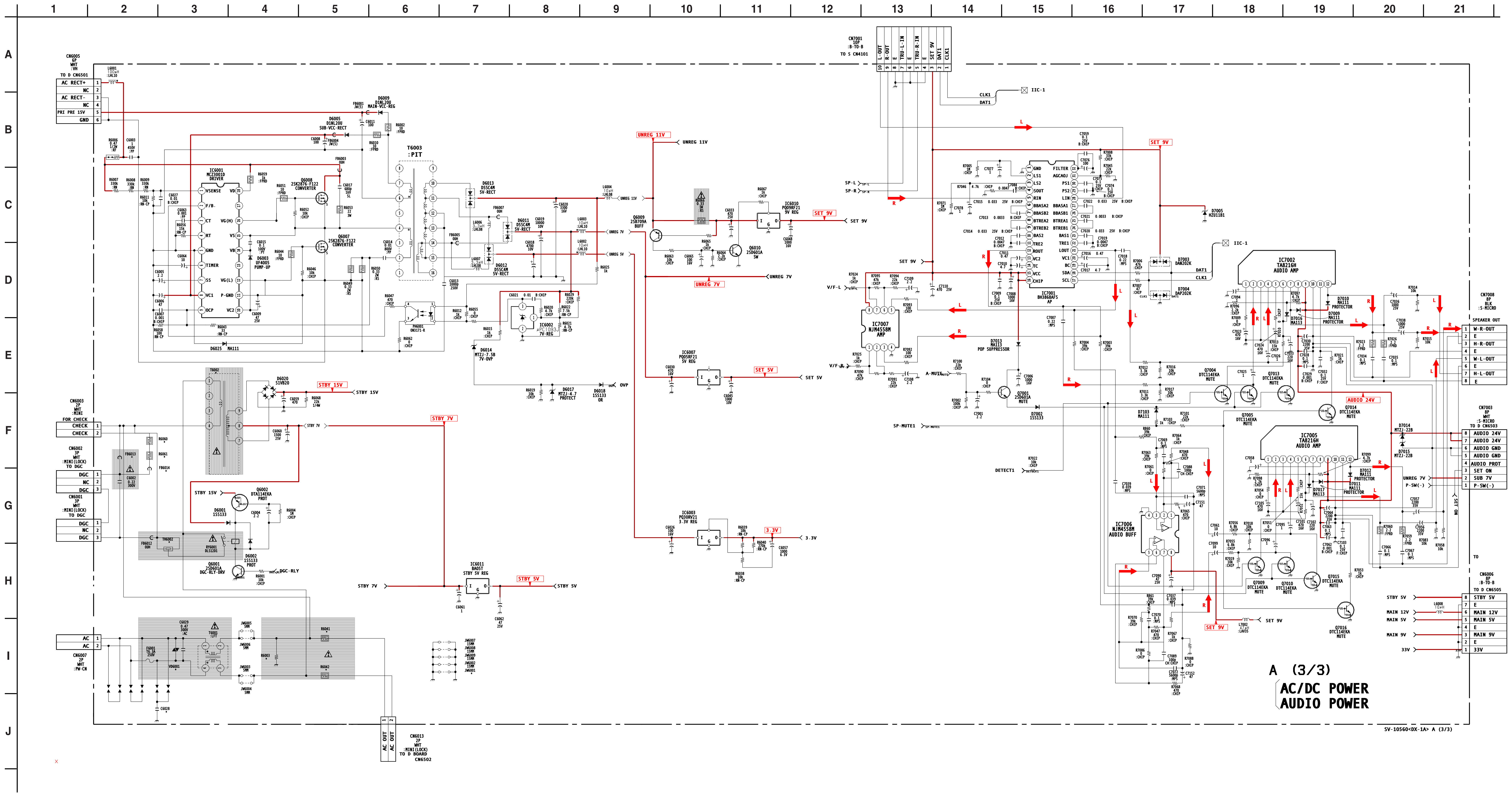
COMPONENT SIDE


CN9006
CN9001
CN9002
CN9003
CN9004
CN9005
SONY
A-1332-075-A
1-678-581-11
171868211

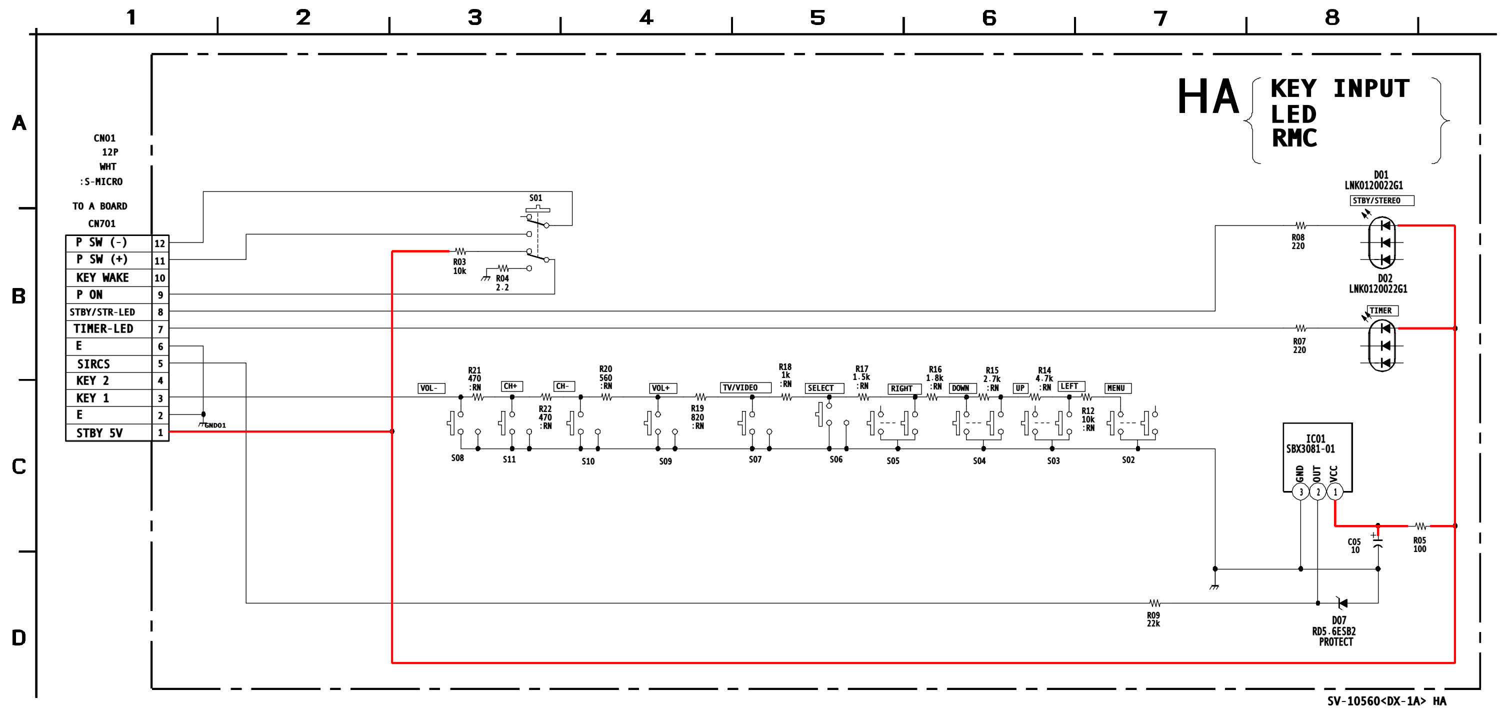
CONDUCTOR SIDE


CN9006
CN9001
CN9004
CN9003
SONY
171868211
1-678-581-11

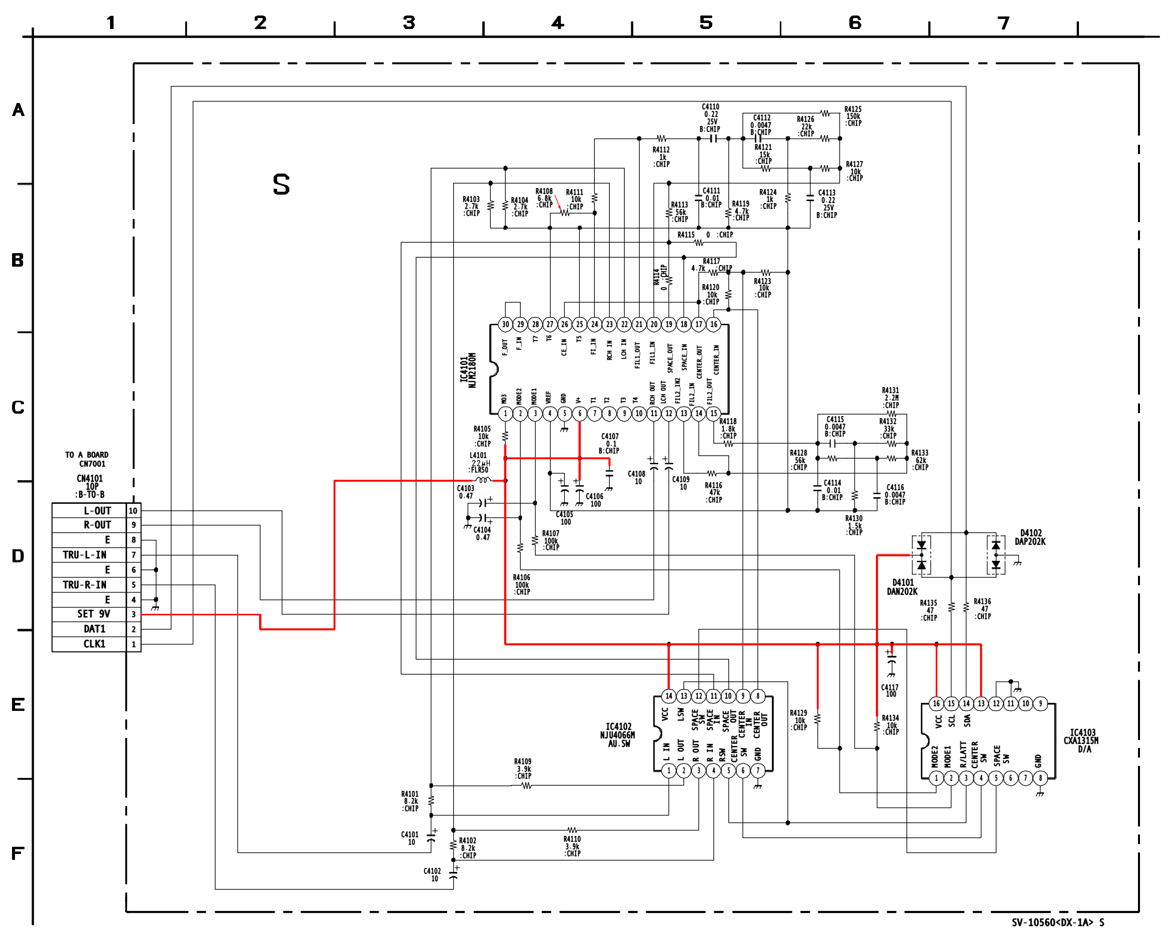
A Board Schematic Diagram (3 of 3)


A (3/3)
AC/DC POWER
AUDIO POWER
IC6001 MC33023P DRIVER
Q6007 2SK2876-F122 CONVERTER
Q6008 2SK2876-F122 CONVERTER
T6003 PIT
IC7002 TA8216H AUDIO AMP
IC7005 TA8216H AUDIO AMP
IC7001 BH3868FS AP
IC7007 NJM4558M AMP
IC7006 NJM4558M AUDIO BUFF
UNREG 11V
SET 9V
UNREG 7V
SET 5V
STBY 15V
STBY 7V
STBY 5V
3.3V
AUDIO 24V
SV-10560<DX-1A> A (3/3)

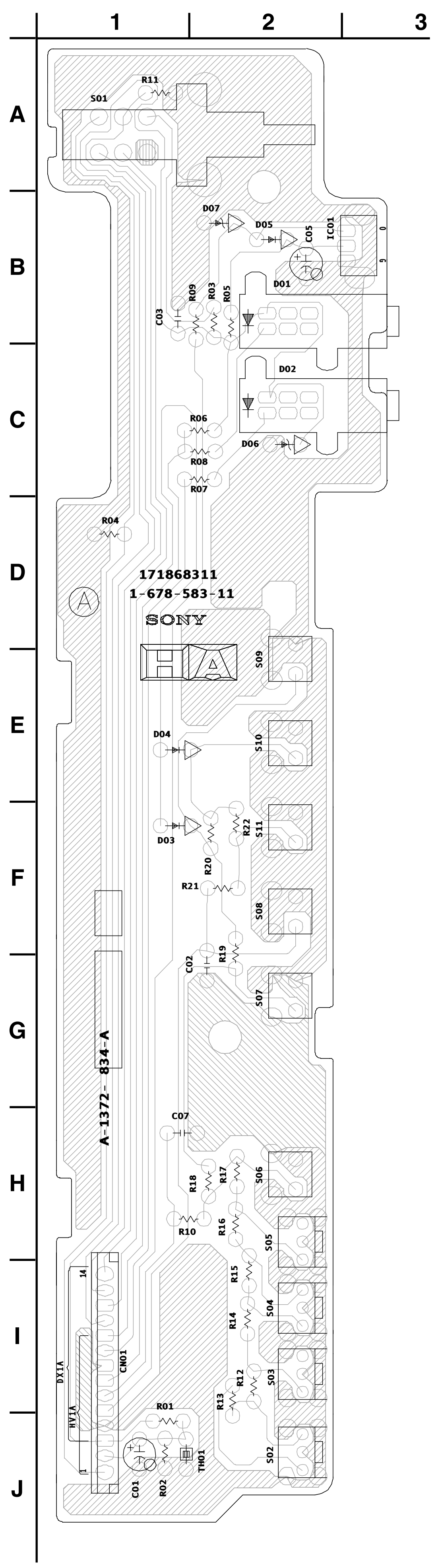
HA Board Schematic Diagram


HA
KEY INPUT
LED
RMC
SV-10560<DX-1A> HA

S Board Schematic Diagram



HA [KEY INPUT, LED, RMC]


171868311
1-678-583-11
SONY
HA
A-1372-834-A

A BOARD IC VOLTAGE LIST

IC6001 pin	volt
1	3.3
2	1.8
3	2.2
4	2.5
5	GND
6	0
7	4.6
8	17.3
9	0
10	10.4
11	GND
12	4.7
13	NC
14	160.6
15	150.4
16	154.6
17	NC
18	303.1

IC6002 pin	volt
1	7.3
2	gnd
3	2.5

IC6003 pin	volt
I	5.7
G	GND
O	3.3

IC6007 pin	volt
I	6.3
G	GND
O	5.0

IC6010 pin	volt
I	10.9
G	GND
O	9.0

IC6011 pin	volt
I	8.1
G	GND
O	5.0

IC7001 pin	volt
1	GND
2	0
3	0
4	4.5
5	4.4
6	4.4
7	4.4
8	4.4
9	4.4
10	4.4
11	4.4
12	4.4
13	0.8
14	1.9
15	9.0
16	9.0
17	4.5
18	4.6
19	1.9
20	0.8
21	4.4
22	4.4
23	4.4
24	4.4
25	4.4
26	4.4
27	4.4
28	4.4
29	4.4
30	4.5
31	2.8
32	4.4

IC7002 pin	volt
1	1.6
2	0
3	0
4	0
5	1.6
6	8.0
7	4.0
8	5.0
9	23.7
10	0
11	4.1
12	10.5

IC7005 pin	volt
1	1.6
2	0
3	0
4	0
5	1.6
6	8.0
7	11.0
8	5.0
9	23.7
10	0
11	4.2
12	10.5

IC7006 pin	volt
1	4.5
2	4.5
3	4.5
4	GND
5	4.5
6	4.5
7	4.5
8	9.0

A BOARD TRANSISTOR VOLTAGE LIST

	B	C	E
Q6001	0	18.0	GND
Q6002	19.7	18.5	19.8
Q6003	-0.5	0	GND
Q7001	0.3	0	0
Q7002	-0.1	9.0	GND
Q7003	9.0	0	9.0
Q7004	0.3	8.0	GND
Q7005	0	0	GND
Q7009	0.3	8.0	GND
Q7010	0	0.7	GND
Q7011	0	-0.1	0
Q7014	0	4.1	GND
Q7016	0	4.2	GND

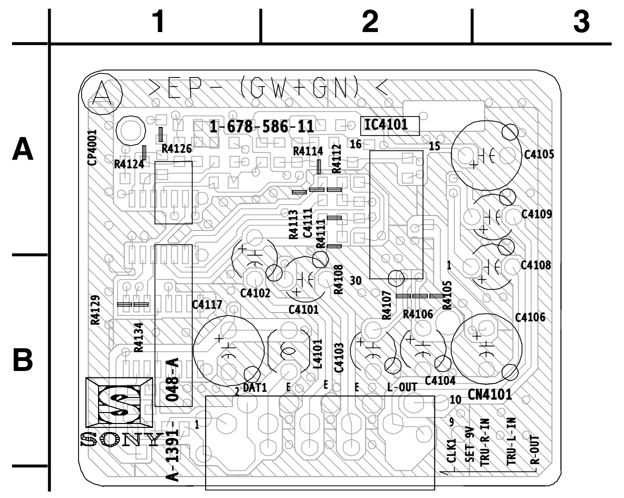
	D	G	S
Q6007	150.4	4.7	0
Q6008	303.0	154.6	150

All voltages in V.

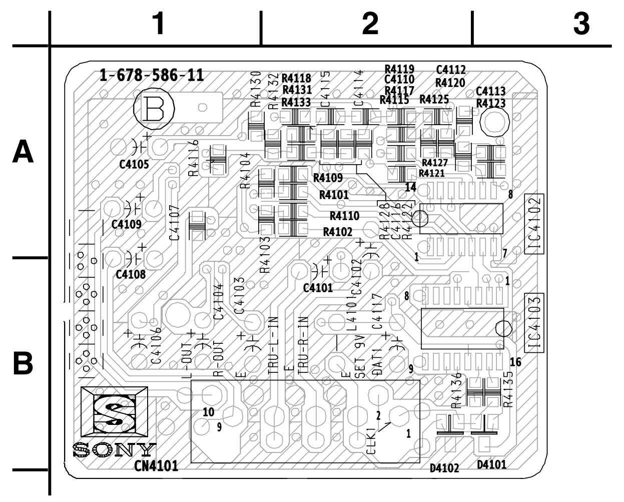
A BOARD (*) MODEL VARIANCE LIST

REF NO.	LOC	KV-32XBR400	KV-36XBR400	KV-38DRC1C
C6002	G-1	0.22 125V	0.22 125V	0.22 300V
C6028	J-2	#	#	4700p 250V
C6029	I-2	0.47 125V	0.47 125V	0.47 300V
C6035	I-4	0.047 125V	0.047 125V	0.047 300V
FB6012	H-2	1.1 uH	1.1 uH	#
FB6014	G-2	#	#	1.1 uH
JW6001	G-2	15mm	15mm	#
R6003	I-4	3.3M 1/2W	3.3M 1/2W	8.2M 1W
R6041	I-4	0.47 20W	0.47 20W	1 20W
R6042	I-4	0.47 20W	0.47 20W	1 20W
R6060	F-2	#	#	3.3 10W
R6061	F-2	#	#	3.3 10W
T6002	F-3	1-435-675-11	1-435-675-11	1-435-676-11
TH6002	H-2	1-803-970-11	1-803-970-11	1-803-541-11
VD6001	I-2	ERZV10D271	ERZV10D271	ENE471D-14A

S COMPONENT SIDE


1-678-586-11
IC4101
SONY
A-1393-

CONDUCTOR SIDE


1-678-586-11
IC4102
IC4103
SONY
CN4101

S BOARD LOCATOR LIST

DIODE	Component	Conductor
D4101		B-3
D4102		B-2

IC	Component	Conductor
IC4101	A-2	
IC4102		A-3
IC4103		B-3

S BOARD IC VOLTAGE LIST

IC4101 pin	volt
1	8.4
2	0.1
3	0.1
4	4.5
5	GND
6	9.0
7	NC
8	NC
9	NC
10	NC
11	4.5
12	4.5
13	4.5
14	4.5
15	4.5
16	4.5
17	4.5
18	4.5
19	4.5
20	4.5
21	4.5
22	4.5
23	4.5
24	4.5
25	4.5
26	4.5
27	4.5
28	NC
29	4.5
30	4.5

IC4102 pin	volt
1	4.5
2	4.5
3	4.5
4	4.5
5	8.6
6	0.3
7	GND
8	4.5
9	4.5
10	4.5
11	4.5
12	0.3
13	8.6
14	9.0

IC4103 pin	volt
1	0.1
2	0.1
3	8.6
4	0.3
5	0.3
6	NC
7	NC
8	GND
9	NC
10	NC
11	GND
12	GND
13	9.0
14	4.5
15	4.5
16	9.0

All voltages are in V

HA BOARD IC VOLTAGE LIST

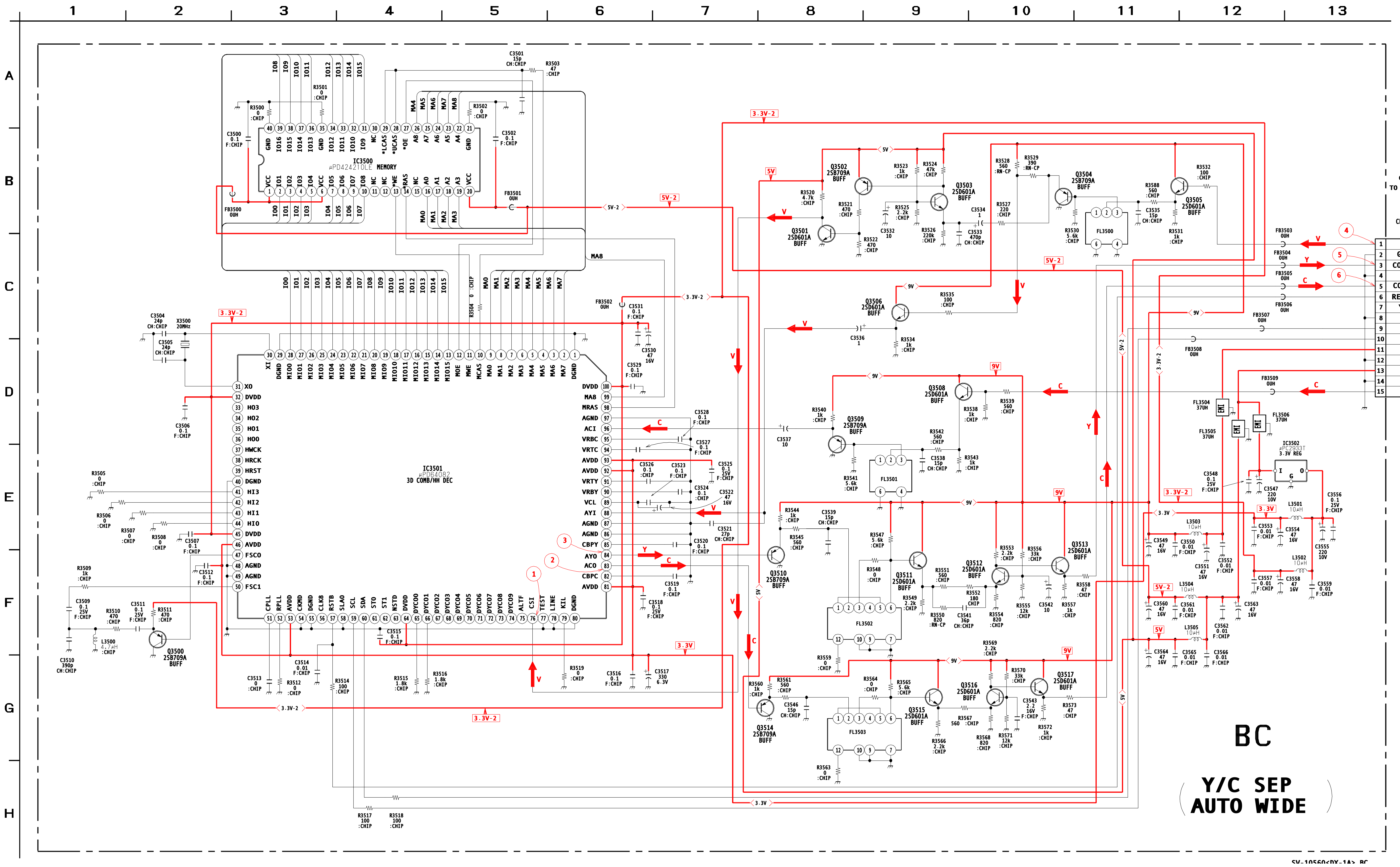
IC01 pin	volt
1	4.9
2	0
3	4.3

All voltages are in V

HA BOARD LOCATOR LIST

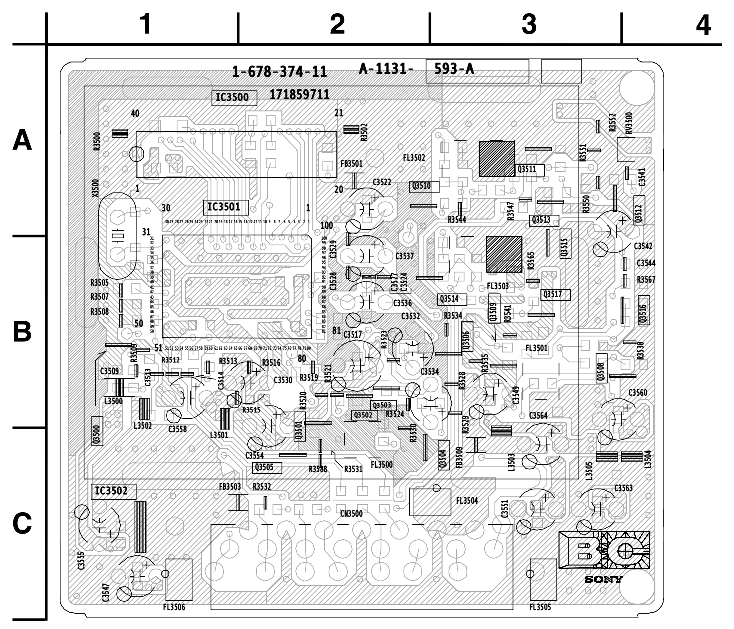
DIODE	
D01	B-2
D02	C-2
D07	B-2
IC	
IC01	B-3

BC Board Schematic Diagram


IC3500 µPD4242210LE MEMORY
IC3501 µPD64082 3D COMB/H/H DEC
IC3502 µPC2933T 3.3V REG
CN3201 TO B BOARD
CN3500 15P
1 IN
2 GND
3 COMB Y
4 GND
5 COMB C
6 RESET
7 Y-IN
8 GND
9 DAT
10 CLK
11 9V
12 GND
13 5V
14 GND
15 C IN
FB3503 0UH
FB3504 0UH
FB3505 0UH
FB3506 0UH
FB3507 0UH
FB3509 0UH
FL3506 37UH
3.3V-2
5V-2
9V
3.3V
V
Y
C
BC
Y/C SEP
AUTO WIDE
SV-10560<DY-1A> BC

BC [Y/C SEP, AUTO WIDE]

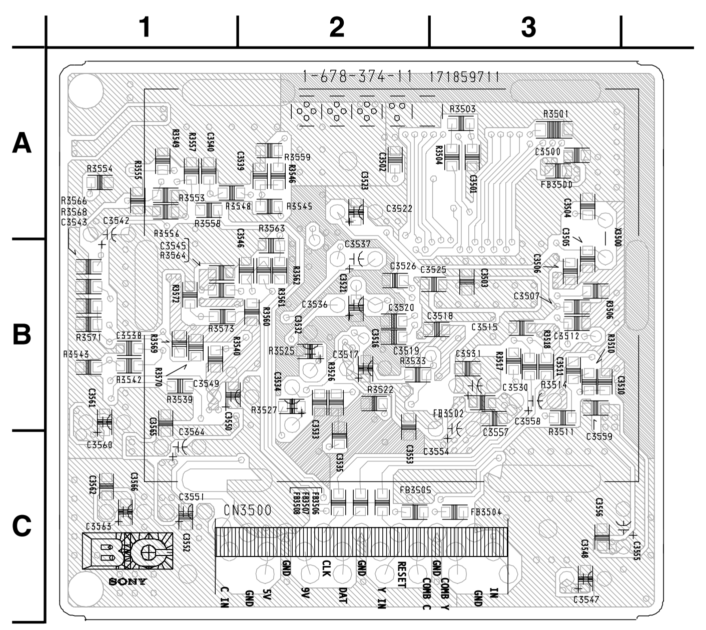
COMPONENT SIDE



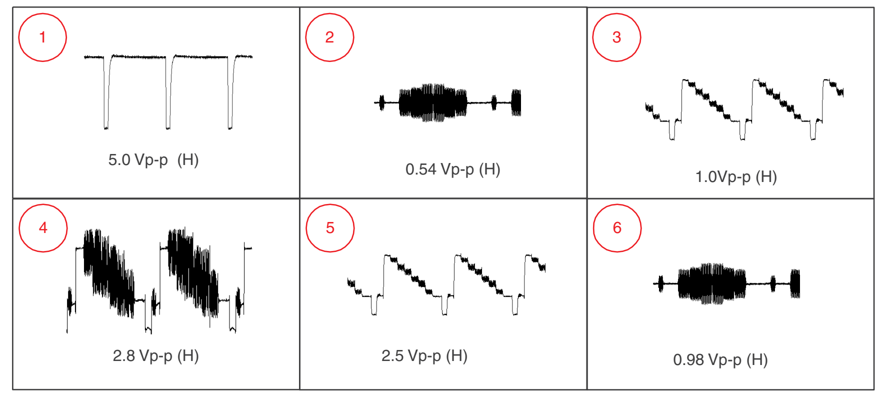
BC BOARD LOCATOR LIST

IC	
IC3500	A-1
IC3501	A-1
IC3502	C-1
TRANSISTOR	
Q3500	C-1
Q3501	C-2
Q3502	B-2
Q3503	B-2
Q3504	C-3
Q3505	C-2
Q3506	B-3
Q3508	B-3
Q3509	B-3
Q3510	A-2
Q3511	A-3
Q3512	A-4
Q3513	A-3
Q3514	B-3
Q3515	B-3
Q3516	B-4
Q3517	B-3

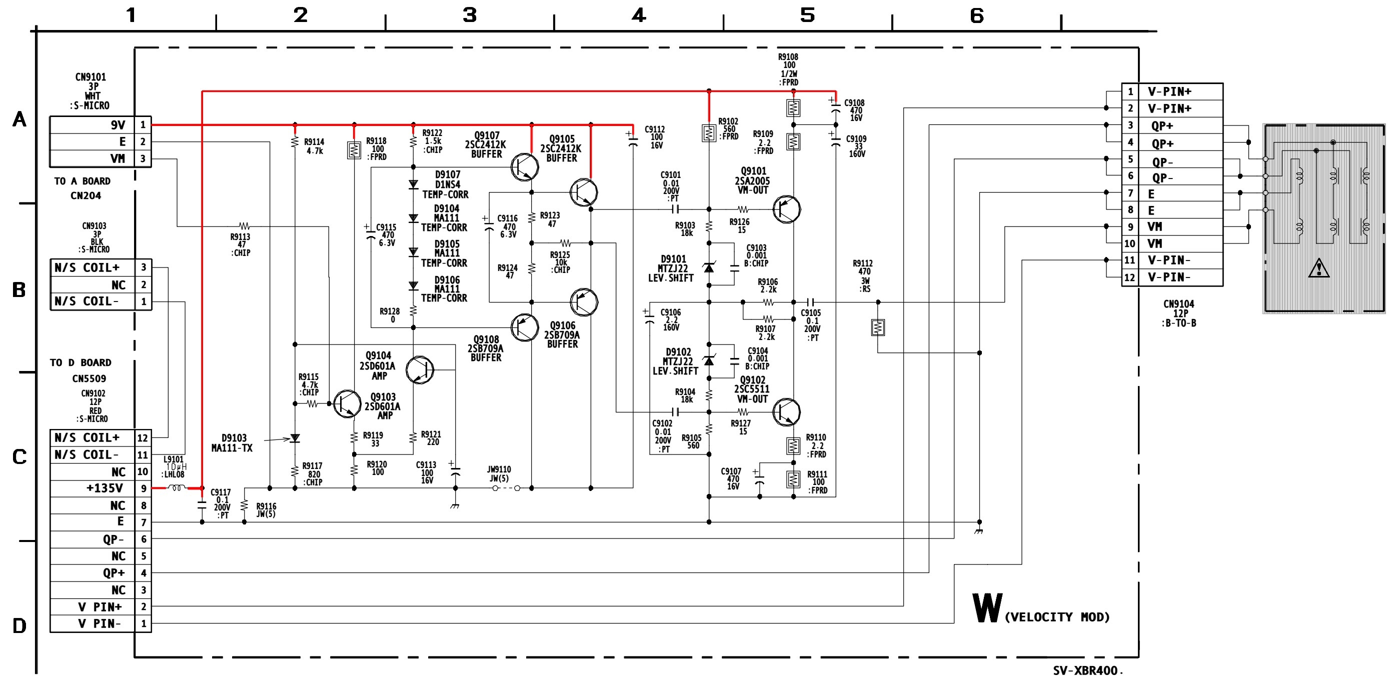
CONDUCTOR SIDE



BC BOARD WAVEFORMS



W Board Schematic Diagram


W (VELOCITY MOD)
SV-XBR400

W BOARD TRANSISTOR VOLTAGE LIST

	B	C	E
Q9101	133.8	67.5	134.3
Q9102	1.3	67.5	0.8
Q9103	2.9	0	9.0
Q9104	9.0	5.1	0
Q9105	5.1	9.0	4.7
Q9106	4.1	GND	4.7
Q9107	5.9	9.0	5.1
Q9108	3.5	GND	4.1
Q9109	2.9	GND	3.5

All voltages in V.

BC BOARD IC VOLTAGE LIST

IC3500		17	1.5	35	0	11	2.8	29	GND	47	1.7	65	0	83	1.6
pin	volt	18	1.5	36	1.9	12	2.4	30	1.4	48	GND	66	0.0	84	1.7
1	4.8	19	1.5	37	1.8	13	1.9	31	1.5	49	GND	67	NC	85	1.0
2	2.0	20	4.8	38	1.8	14	2.5	32	3.2	50	1.4	68	NC	86	0
3	2.0	21	0	39	1.8	15	1.3	33	NC	51	0	69	NC	87	0
4	1.8	22	1.5	40	0	16	1.7	34	NC	52	0	70	NC	88	1.3
5	1.9	23	1.5	**IC3501**		17	1.9	35	NC	53	3.2	71	NC	89	0.5
6	4.8	24	1.5	pin	volt	18	1.8	36	NC	54	GND	72	NC	90	0.9
7	1.6	25	1.5	1	GND	19	1.9	37	NC	55	GND	73	NC	91	1.6
8	1.4	26	1.5	2	1.5	20	1.8	38	NC	56	NC	74	NC	92	3.2
9	1.1	27	2.4	3	1.5	21	0.9	39	NC	57	5.0	75	NC	93	3.2
10	0.8	28	1.0	4	1.5	22	1.3	40	GND	58	GND	76	4.1	94	3.2
11	NC	29	1.0	5	1.5	23	1.4	41	0	59	4.5	77	GND	95	2.0
12	NC	30	NC	6	1.5	24	1.6	42	0	60	4.5	78	GND	96	2.6
13	2.9	31	1.9	7	1.5	25	1.8	43	0	61	NC	79	0	97	0
14	0.5	32	2.5	8	1.5	26	1.8	44	0	62	NC	80	GND	98	0.5
15	NC	33	1.3	9	1.5	27	2.0	45	3.2	63	NC	81	3.2	99	1.5
16	1.5	34	1.7	10	1.0	28	2.0	46	3.2	64	3.2	82	1.0	100	3.2

IC3502	
pin	volt
I	4.8
G	GND
O	3.3

All voltages are in V

BC BOARD TRANSISTOR VOLTAGE LIST

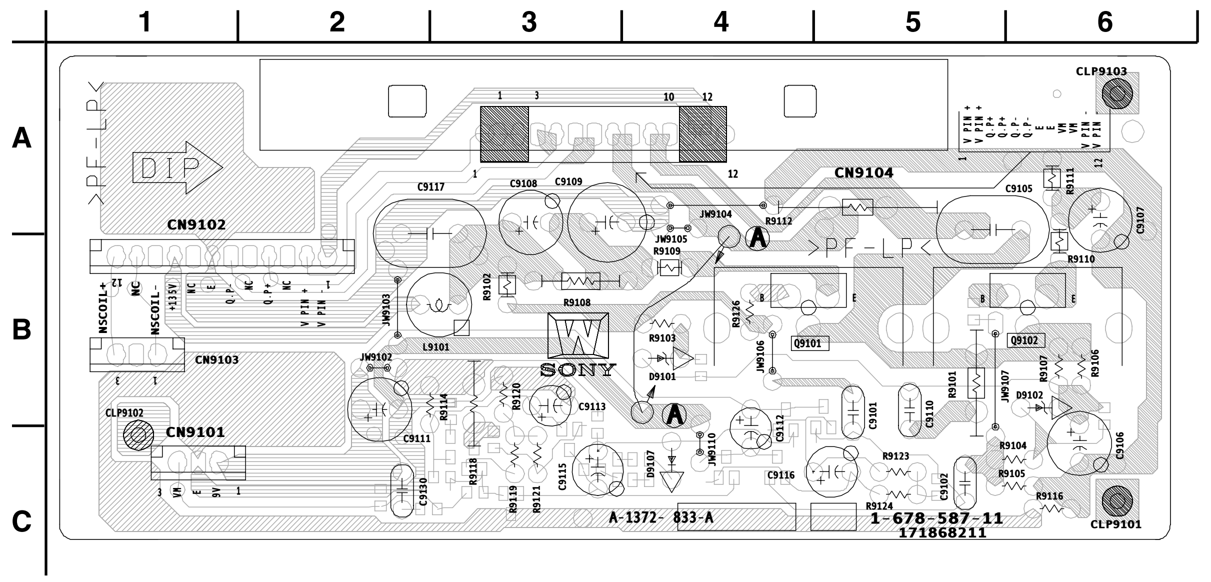
	B	C	E
Q3500	1.7	GND	2.3
Q3501	0.1	4.2	GND
Q3502	4.6	0.4	4.9
Q3503	3.3	4.7	4.0
Q3504	3.3	GND	4.0
Q3505	4.3	8.9	3.6
Q3506	6.0	8.9	5.3
Q3508	2.4	8.9	1.8
Q3509	1.6	GND	2.3

	B	C	E
Q3510	1.7	GND	2.3
Q3511	2.9	8.9	2.3
Q3512	2.3	6.1	1.7
Q3513	6.1	8.9	5.5
Q3514	1.6	GND	2.3
Q3515	2.9	8.9	2.3
Q3516	2.3	6.4	1.7
Q3517	6.4	8.9	5.7

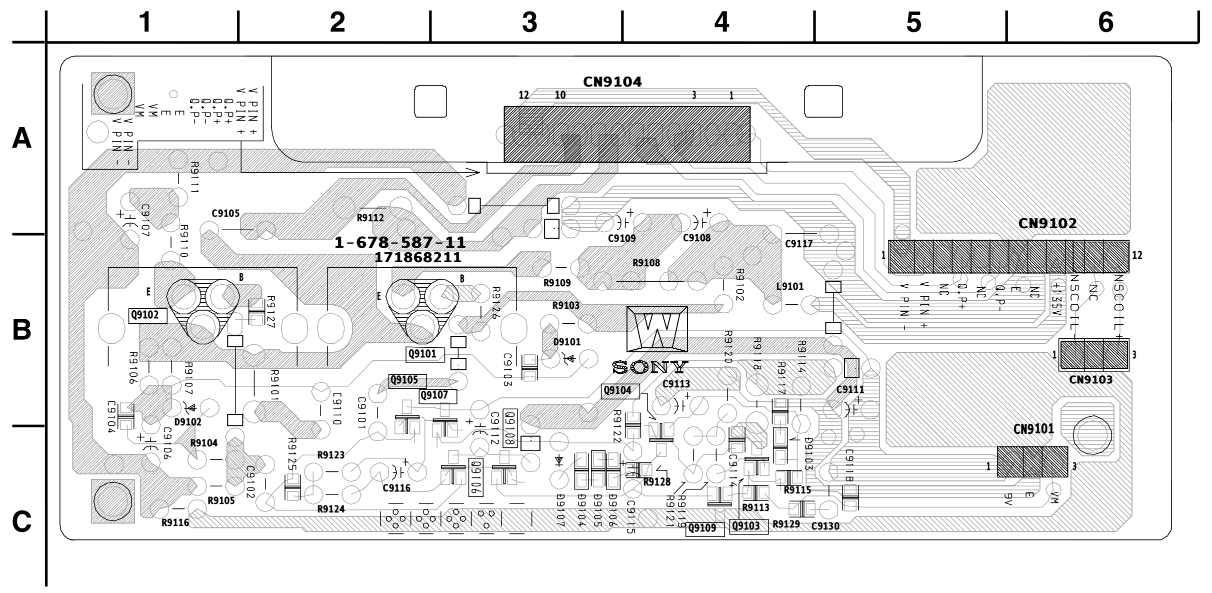
All voltages in V.

W [VELOCITY MODULATION]

COMPONENT SIDE



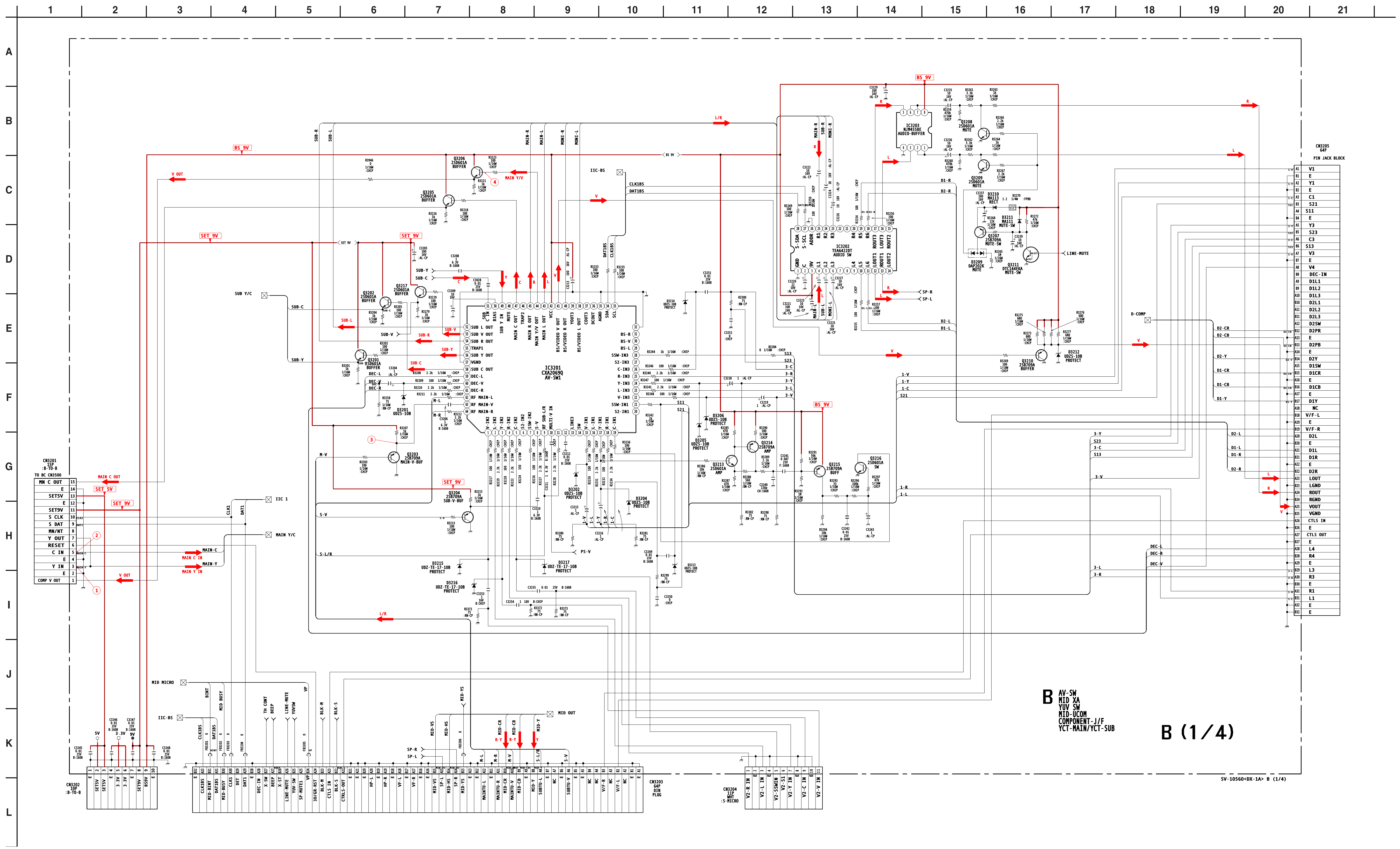
CONDUCTOR SIDE



W BOARD LOCATOR LIST

DIODE		
	Component	Conductor
D9101	B-4	
D9102	B-6	
D9103		C-4
D9104		C-3
D9105		C-3
D9106		C-3
D9107	C-4	
TRANSISTOR		
	Component	Conductor
Q9101	B-4	
Q9102	B-6	
Q9103		C-4
Q9104		B-3
Q9105		B-2
Q9106		C-3
Q9107		B-3
Q9108		C-3

B Board Schematic Diagram (1 of 4)


IC3201 CXA2069Q AV-SW1
IC3202 TEA6420T AUDIO SW
IC3203 NJM4558E AUDIO-BUFFER
CN3201 15P TO BC CN3500
CN3202 10P :B-TO-B
CN3203 64P DIN PLUG
CN3204 11P :S-MICRO
CN3205 64P PIN JACK BLOCK
B AV-SW MID XA YUV SW MID-UCOM COMPONENT-J/F YCT-MAIN/YCT-SUB
B (1/4)
SV-10560<DX-1A> B (1/4)

B BOARD IC VOLTAGE LIST

IC3201

pin	volt	pin	volt	pin	volt
1	3.9	26	4.4	53	3.8
2	4.4	27	0.1	54	4.5
3	3.9	28	4.9	55	NC
4	4.4	29	NC	56	3.4
5	4.4	30	NC	57	GND
6	0.1	31	NC	58	4.3
7	4.9	32	GND	59	4.4
8	4.0	33	4.4	60	3.9
9	4.5	34	4.6	61	4.4
10	4.4	35	0.0	62	4.4
11	4.5	36	NC	63	4.8
12	4.4	37	NC	64	4.4
13	NC	38	4.5		
14	NC	39	NC		
15	4.4	40	4.5		
16	4.4	41	4.5		
17	3.9	42	9.0		
18	4.4	43	4.5		
19	4.4	44	4.4		
20	0.1	45	4.5		
21	4.9	46	NC		
22	4.3	47	4.4		
23	4.4	48	NC		
24	3.9	49	4.1		
25	4.4	50	4.5		
		51	4.4		
		52	4.5		

IC3202

pin	volt	pin	volt
1	GND	14	4.4
2	4.4	15	4.4
3	9.0	16	4.4
4	4.4	17	4.4
5	4.4	18	4.4
6	4.4	19	4.4
7	NC	20	NC
8	NC	21	NC
9	NC	22	NC
10	4.4	23	4.4
11	4.4	24	4.4
12	4.4	25	4.4
13	4.4	26	GND
		27	4.6
		28	4.6

IC3203

pin	volt
1	4.4
2	4.4
3	4.4
4	GND
5	4.4
6	4.4
7	4.4
8	9.0

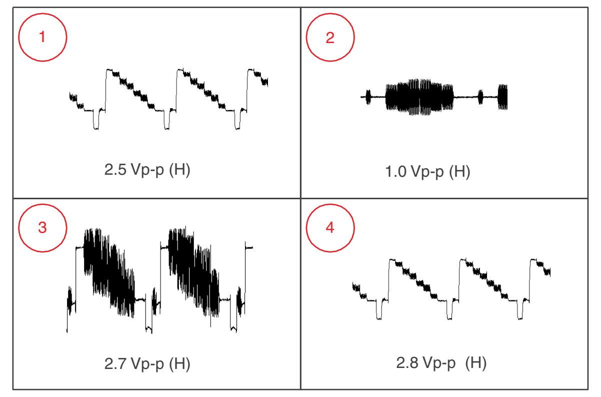
All voltages are in V

B BOARD TRANSISTOR VOLTAGE LIST

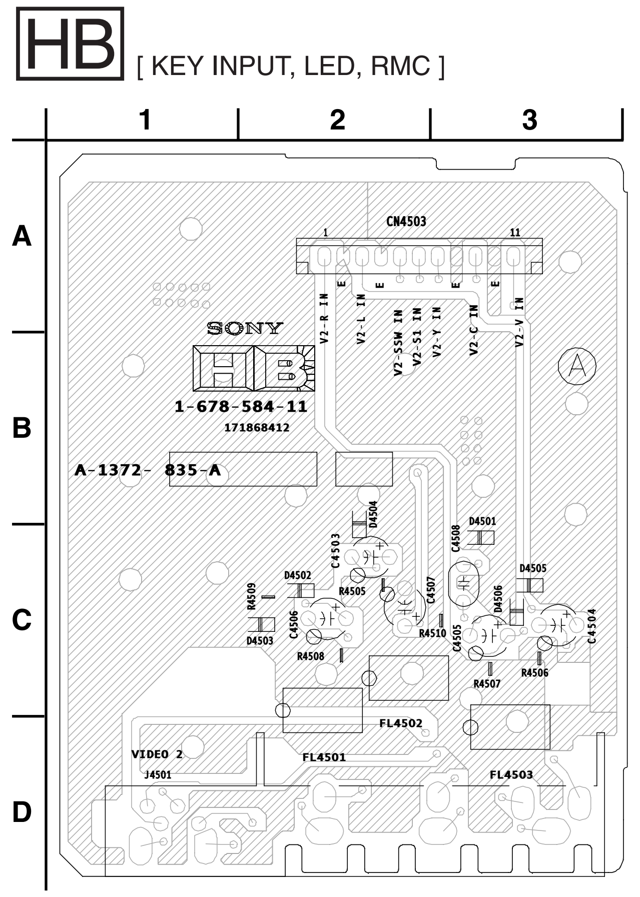
	B	C	E
Q3201	4.6	2.9	2.5
Q3202	2.7	9.0	2.3
Q3203	3.1	GND	3.7
Q3204	1.8	GND	2.2
Q3205	4.4	9.0	3.8
Q3206	4.9	9.0	4.3
Q3207	8.9	-1.0	8.9
Q3208	-0.3	0	GND
Q3209	-0.3	0	GND
Q3210	2.7	GND	3.1
Q3211	0.4	8.9	GND
Q3213	3.8	7.9	3.2
Q3214	7.9	5.8	8.5
Q3215	8.5	0	9.0
Q3216	0.1	4.9	0
Q3217	3.6	9.0	3.1

All voltages in V.

B BOARD (1/4) WAVEFORMS



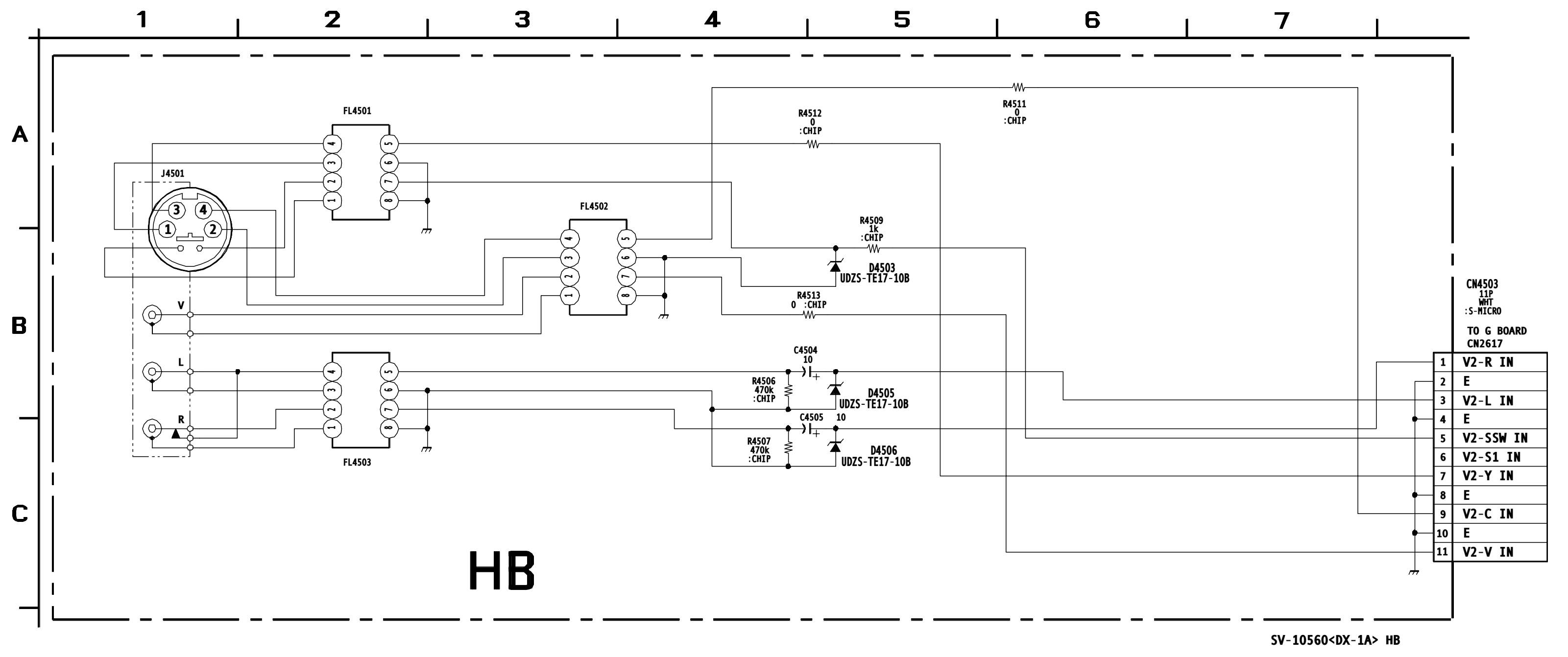
HB [KEY INPUT, LED, RMC]


1
2
3
A
B
C
D
CN4503
SONY
HB
1-678-584-11
A-1372-835-A
FL4501
FL4502
FL4503
VIDEO 2

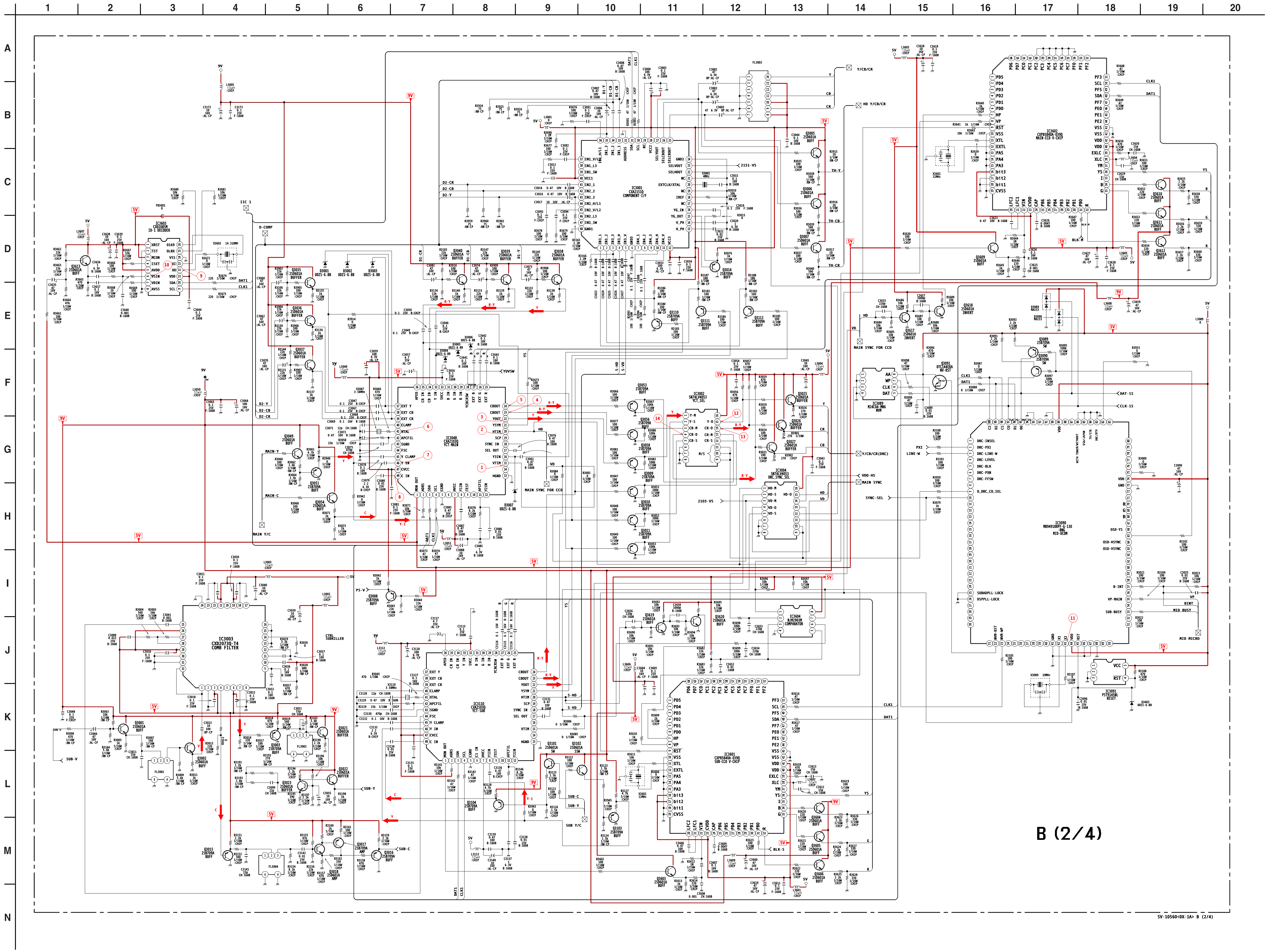
HB BOARD LOCATOR LIST

DIODE	
D4501	C-3
D4502	C-2
D4503	C-2
D4504	B-2
D4505	C-3
D4506	C-3

HB Board Schematic Diagram


HB
CN4503 11P TO G BOARD
V2-R IN
V2-L IN
V2-SSW IN
V2-S1 IN
V2-Y IN
V2-C IN
V2-V IN
FL4501
FL4502
FL4503
SV-10560<DX-1A> HB

B Board Schematic Diagram (2 of 4)


1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
A
B
C
D
E
F
G
H
I
J
K
L
M
N
IC3003
CXD2073Q-T4
COMB FILTER
IC3001
CXA2151Q
COMPONENT C/Y
IC3601
CXP85400A-059Q
SUB CCD V-CHIP
IC3602
CXP85400A-059Q
MAIN CCD V-CHIP
IC3090
M65401BFP-E 130
PIP
B (2/4)
SV-10560<DX-1A> B (2/4)

B BOARD IC VOLTAGE LIST

IC3001

pin	volt
1	3.2
2	3.2
3	3.2
4	1.2
5	1.0
6	GND
7	NC
8	NC
9	NC
10	1.0
11	0.9
12	4.8
13	4.0
14	4.0
15	2.7
16	2.3
17	1.0
18	2.8
19	0
20	2.7
21	0
22	0.3
23	0
24	GND
25	2.9
26	2.8
27	2.2
28	4.8
29	GND
30	4.6
31	4.6
32	GND
33	3.1
34	3.1
35	3.1
36	3.2
37	3.2
38	3.3
39	2.4
40	4.8
41	3.1
42	3.1
43	3.1
44	3.3
45	3.2
46	3.2
47	2.4
48	GND

IC3002

pin	volt
1	2.4
2	0
3	2.7
4	2.8
5	0
6	GND
7	GND
8	GND
9	4.9
10	4.9
11	4.9
12	0.1
13	2.6
14	2.7
15	2.5
16	4.9

IC3003

pin	volt
1	1.0
2	0
3	4.8
4	1.0
5	NC
6	4.8
7	0.5
8	0
9	1.9
10	2.6
11	0.9
12	2.0
13	GND
14	0
15	GND
16	GND
17	0
18	0
19	4.9
20	NC
21	4.9
22	0
23	NC
24	GND
25	2.4
26	4.8
27	2.2
28	2.2
29	4.8
30	GND
31	GND
32	1.0

IC3004

pin	volt
1	0.6
2	0.5
3	0.5
4	0.5
5	GND
6	GND
7	GND
8	GND
9	4.9
10	4.9
11	0
12	0.3
13	0.6
14	0.3
15	0.6
16	4.9

IC3048

pin	volt
1	1.7
2	0.2
3	4.6
4	4.6
5	GND
6	NC
7	4.9
8	2.8
9	NC
10	NC
11	2.3
12	NC
13	GND
14	NC
15	0.5
16	2.4
17	2.0
18	3.1
19	NC
20	0.5
21	0
22	1.8
23	2.1
24	2.0
25	3.4
26	3.4
27	3.4
28	0
29	NC
30	NC
31	NC
32	4.8
33	3.4
34	3.1
35	0
36	2.6
37	3.4
38	3.1
39	3.1
40	1.7
41	1.7
42	2.4
43	0
44	NC
45	3.1
46	2.8
47	4.8
48	3.1

IC3089

pin	volt
1	GND
2	GND
3	0.0
4	GND
5	4.6
6	4.6
7	4.9
8	4.9

IC3090

pin	volt
1	0
2	0
3	0
4	NC
5	NC
6	NC
7	NC
8	NC
9	0
10	0
11	NC
12	NC
13	NC
14	NC
15	NC
16	NC
17	NC
18	NC
19	NC
20	NC
21	NC
22	NC
23	NC
24	NC
25	GND
26	GND
27	NC
28	NC
29	NC
30	NC
31	NC
32	0
33	0
34	NC
35	NC
36	NC
37	NC
38	NC
39	NC
40	NC
41	0
42	0
43	5.0
44	0
45	GND
46	GND
47	GND
48	NC
49	NC
50	NC
51	NC
52	NC
53	0
54	NC
55	0
56	NC
57	0
58	NC
59	NC
60	NC
61	NC
62	NC
63	NC
64	NC
65	2.6
66	NC
67	NC
68	NC
69	NC
70	NC
71	NC
72	NC
73	GND
74	5.0
75	GND
76	NC
77	NC
78	NC
79	NC
80	NC
81	NC
82	NC
83	GND
84	GND
85	GND
86	GND
87	NC
88	NC
89	5.0
90	GND
91	NC
92	NC
93	GND
94	NC
95	2.9
96	0
97	2.9
98	4.3
99	2.9
100	4.3

IC3091

pin	volt
1	NC
2	GND
3	GND
4	4.9
5	4.9

IC3110

pin	volt
1	1.0
2	4.6
3	4.6
4	4.6
5	GND
6	NC
7	4.9
8	2.6
9	NC
10	NC
11	2.4
12	NC
13	GND
14	NC
15	0.5
16	NC
17	1.6
18	2.8
19	NC
20	0.5
21	0
22	1.2
23	2.0
24	1.9
25	3.4
26	3.4
27	3.4
28	NC
29	NC
30	NC
31	NC
32	4.8
33	NC
34	NC
35	NC
36	2.6
37	NC
38	NC
39	NC
40	1.7
41	1.8
42	2.4
43	0
44	2.4
45	3.4
46	2.4
47	4.8
48	3.1

IC3601

pin	volt
1	NC
2	NC
3	NC
4	NC
5	NC
6	NC
7	0.2
8	0.1
9	4.9
10	GND
11	2.4
12	2.1
13	GND
14	GND
15	GND
16	4.9
17	4.9
18	GND
19	GND
20	1.6
21	2.4
22	1.5
23	4.9
24	0
25	NC
26	NC
27	NC
28	NC
29	NC
30	NC
31	0
32	0
33	0
34	0
35	NC
36	0
37	NC
38	2.4
39	2.4
40	4.9
41	4.9
42	GND
43	GND
44	NC
45	NC
46	NC
47	NC
48	4.6
49	NC
50	4.6
51	NC
52	NC
53	NC
54	NC
55	NC
56	NC
57	NC
58	NC
59	NC
60	NC
61	NC
62	NC
63	NC
64	NC

IC3602

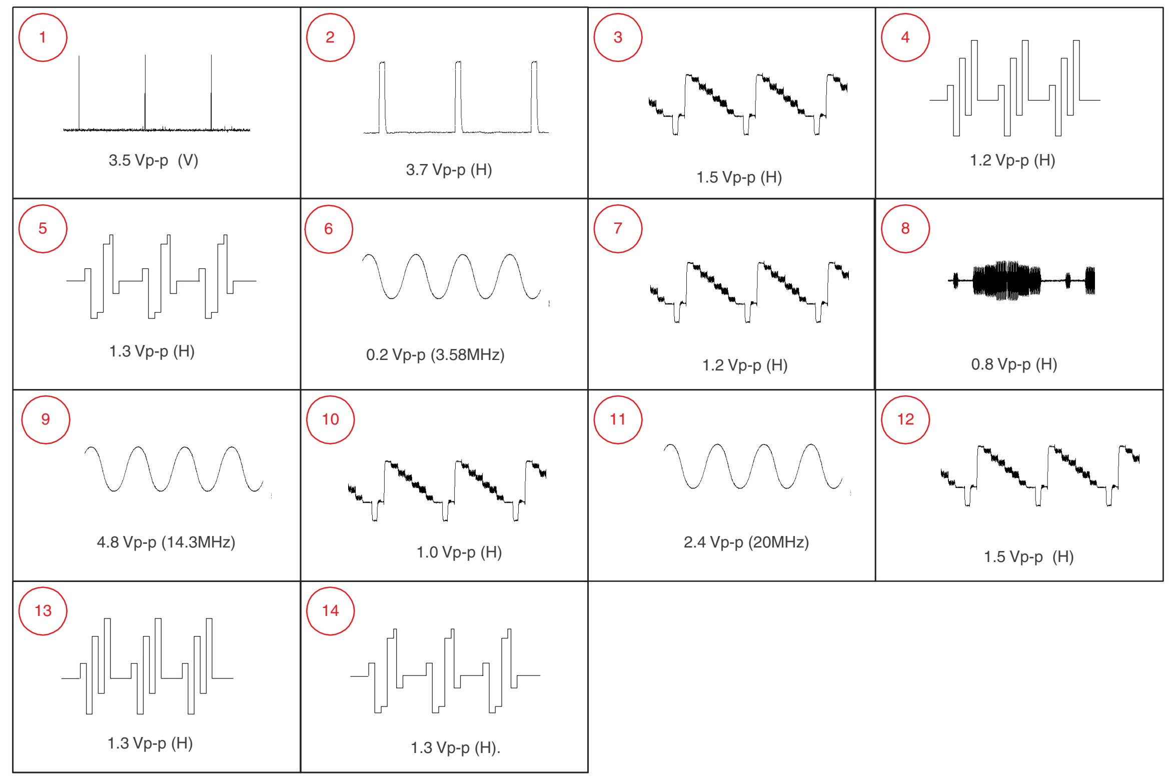
pin	volt
1	NC
2	NC
3	NC
4	NC
5	NC
6	NC
7	0.2
8	0.1
9	4.9
10	GND
11	2.4
12	2.2
13	GND
14	GND
15	GND
16	4.9
17	GND
18	GND
19	GND
20	1.7
21	2.5
22	2.5
23	4.9
24	NC
25	NC
26	NC
27	NC
28	NC
29	NC
30	NC
31	0
32	0
33	0
34	0
35	NC
36	0
37	NC
38	2.4
39	2.4
40	4.9
41	4.9
42	GND
43	GND
44	NC
45	NC
46	NC
47	NC
48	4.6
49	NC
50	4.6
51	NC
52	NC
53	NC
54	NC
55	GND
56	GND
57	GND
58	GND
59	GND
60	GND
61	NC
62	NC
63	NC
64	NC

IC3603

pin	volt
1	4.9
2	GND
3	GND
4	1.4
5	4.9
6	1.9
7	1.6
8	GND
9	4.6
10	4.6
11	4.9
12	2.6
13	2.4
14	GND
15	NC
16	NC

All voltages are in V

B BOARD (2/4) WAVEFORMS

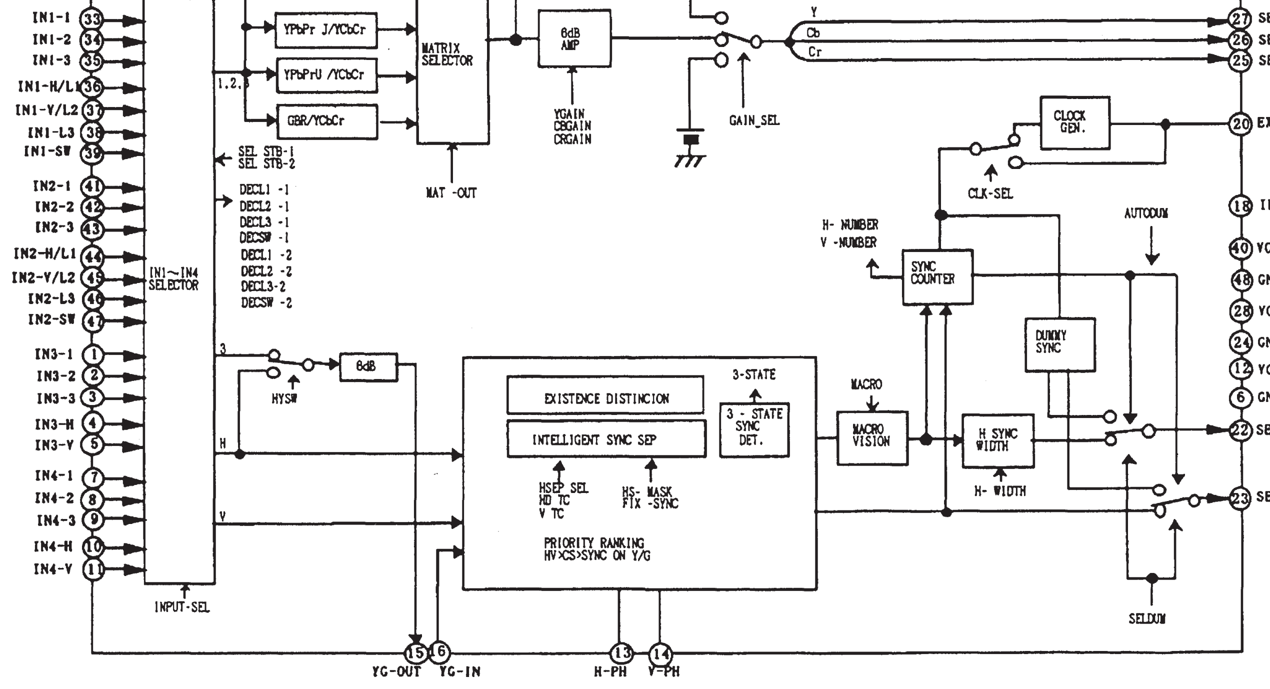


B BOARD TRANSISTOR VOLTAGE LIST

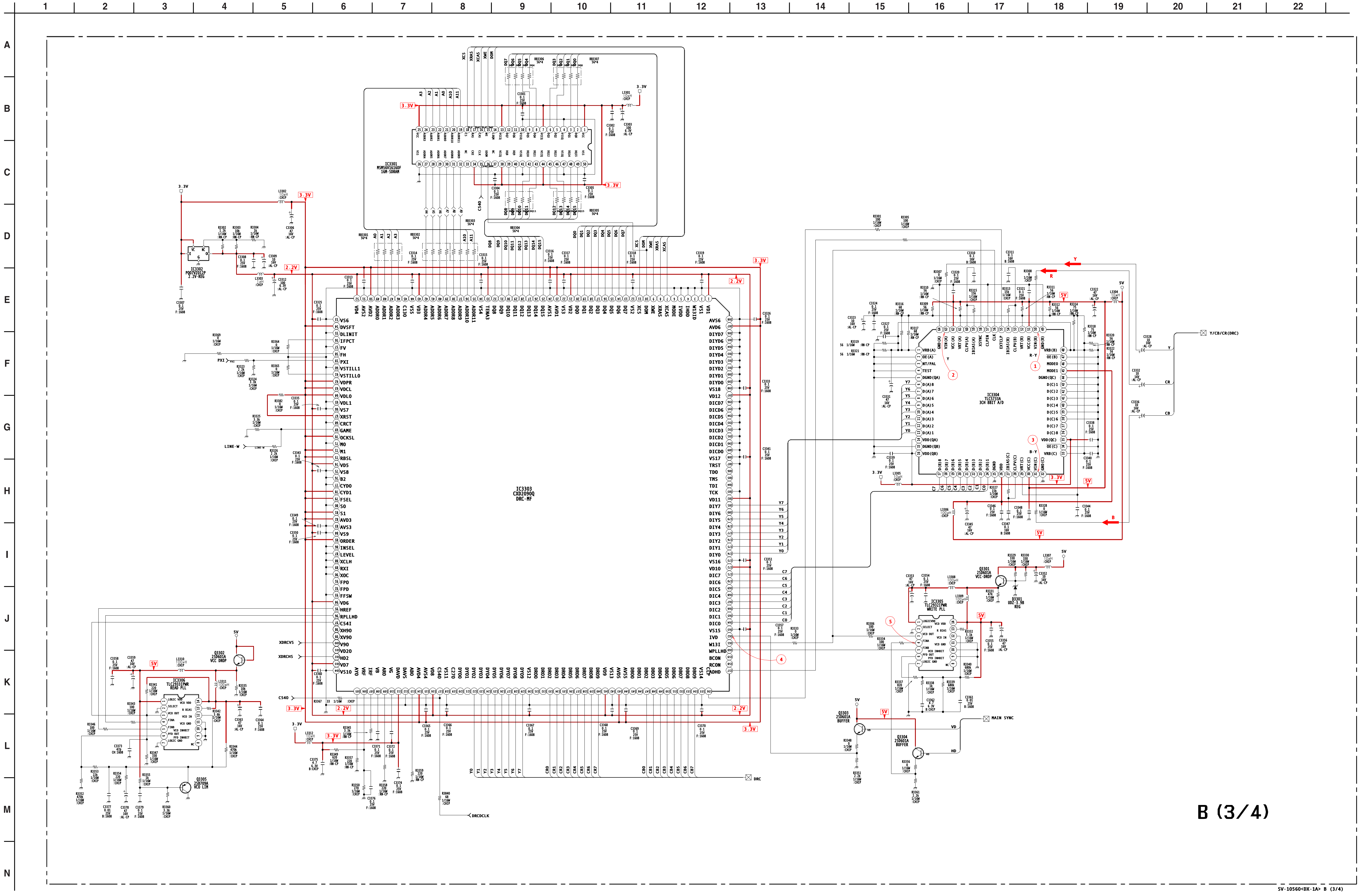
	B	C	E
Q3001	4.1	9.0	3.4
Q3002	5.1	9.0	5.7
Q3003	1.8	GND	5.4
Q3005	2.2	4.9	1.6
Q3006	2.9	4.9	2.2
Q3007	2.9	4.8	2.3
Q3008	1.0	GND	1.6
Q3009	2.0	GND	0
Q3010	2.0	GND	0
Q3011	1.2	GND	0
Q3014	2.7	GND	3.3
Q3015	1.0	GND	1.6
Q3016	1.1	GND	1.7
Q3017	4.1	4.8	0.7
Q3018	1.5	4.1	0.9
Q3021	2.9	9.0	0.7
Q3022	7.9	9.0	0
Q3023	0.7	7.9	0.3
Q3025	2.5	5.0	1.4
Q3026	2.7	5.0	1.4
Q3027	2.8	5.0	1.4
Q3035	5.1	9.0	4.3
Q3036	5.1	9.0	4.3
Q3037	5.1	9.0	4.3
Q3038	4.9	9.0	4.1
Q3039	4.9	9.0	4.1
Q3040	4.9	9.0	4.1
Q3049	5.3	8.9	4.7
Q3051	2.3	GND	3.0
Q3053	2.0	GND	2.6
Q3054	5.7	8.9	5.1
Q3056	2.1	GND	2.8
Q3058	1.9	GND	2.5
Q3089	4.1	4.7	4.7
Q3090	4.1	4.7	4.7
Q3091	0	8.9	GND
Q3101	3.7	9.0	3.1
Q3102	2.8	9.0	2.2
Q3103	1.1	GND	1.7
Q3104	1.5	GND	2.1
Q3110	0.8	GND	1.5
Q3111	1.2	GND	1.8
Q3112	1.2	GND	1.8
Q3603	1	4.9	0.3
Q3604	0	9.0	0
Q3605	0	9.0	0
Q3606	0	9.0	0
Q3609	1.9	4.9	1.3
Q3610	0	9.0	0
Q3611	0	9.0	0
Q3612	0	9.0	0
Q3613	3.7	4.9	3.0
Q3617	0.5	4.7	GND
Q3618	0.2	4.7	GND
Q3619	0.5	0.1	GND
Q3620	0.2	0.2	GND

All voltages in V.

B BOARD: IC3001 CXA2151Q


SCL 30
SDA 31
ADDRESS 32
IIC BUS DEC
IN1-1 33
IN1-2 34
IN1-3 35
IN1-H/L1 36
IN1-Y/L2 37
IN1-L3 38
IN1-SW 39
IN2-1 41
IN2-2 42
IN2-3 43
IN2-H/L1 44
IN2-Y/L2 45
IN2-L3 46
IN2-SW 47
IN3-1 1
IN3-2 2
IN3-3 3
IN3-H 4
IN3-V 5
IN4-1 7
IN4-2 8
IN4-3 9
IN4-H 10
IN4-V 11
IN1~IN4 SELECTOR
INPUT-SEL
1.2.3
YPbPr J/YCbCr
YPbPrU /YCbCr
GBR/YCbCr
SEL STB-1
SEL STB-2
DECL1 -1
DECL2 -1
DECL3 -1
DECSW -1
DECL1 -2
DECL2 -2
DECL3-2
DECSW -2
MATRIX SELECTOR
MAT -OUT
6dB AMP
YGAIN
CBGAIN
CRGAIN
GAIN_SEL
Y
Cb
Cr
27 SELY OUT
26 SELCB OUT
25 SELCR OUT
CLOCK GEN.
CLK-SEL
20 EXTCLK/X1
18 IREF
40 VCC1
48 GND1
28 VCC2
24 GND2
12 VCC3
6 GND3
22 SELH OUT
23 SELV OUT
3
H
V
HYSW
6dB
EXISTENCE DISTINCION
INTELLIGENT SYNC SEP
HSEP SEL
HD TC
V TC
HS- MASK
FIX -SYNC
PRIORITY RANKING
HV>CS>SYNC ON Y/G
3-STATE
3 - STATE SYNC DET.
MACRO
MACRO VISION
H- NUMBER
V -NUMBER
SYNC COUNTER
DUMMY SYNC
AUTODUM
H SYNC WIDTH
H- WIDTH
SELDUM
15 YG-OUT
16 YG-IN
13 H-PH
14 V-PH

B Board Schematic Diagram (3 of 4)


IC3303
CXD2090Q
DRC-MF
IC3304
TLC5733A
3CH 8BIT A/D
IC3301
IC3302
IC3305
TLC2932IPWR
WRITE PLL
IC3306
TLC2932IPWR
READ PLL
Q3301 2SD601A VCC DROP
Q3302
Q3303 2SD601A BUFFER
Q3304 2SD601A BUFFER
Q3305 2SC4700 VCO LIN
Y/CB/CR(DRC)
MAIN SYNC
DRC
DRCCLK
XDRCVS
XDRCHS
3.3V
2.2V
5V
B (3/4)
SV-10560<DX-1A> B (3/4)

B BOARD IC VOLTAGE LIST

IC3301 pin	volt
1	3.3
2	1.5
3	1.6
4	GND
5	1.5
6	1.5
7	3.3
8	1.9
9	GND
10	1.8
11	1.2
12	3.3
13	0.5
14	3.2
15	3.2
16	3.2
17	3.2
18	3.2
19	0
20	0
21	0
22	0
23	0
24	0
25	3.3
26	GND
27	0
28	0
29	0
30	0
31	0
32	0
33	NC
34	3.3
35	1.7
36	0.5
37	NC
38	3.3
39	1.6
40	1.6
41	GND
42	1.5
43	1.5
44	3.3
45	1.8
46	2.0
47	GND
48	1.7
49	1.2
50	GND

IC3302 pin	volt
I	3.3
G	GND
O	1.2
VC	3.3
NC	

IC3303 pin	volt
1	2.2
2	1.9
3	GND
4	GND
5	GND
6	GND
7	1.9
8	2.0
9	2.0
10	0.3
11	1.9
12	GND
13	0.6
14	1.0
15	1.9
16	1.3
17	1.0
18	1.0
19	1.2
20	1.0
21	1.2
22	GND
23	3.3
24	GND
25	0.8
26	0.8
27	0.6
28	1.2
29	0.7
30	0.9
31	1.0
32	0.9
33	3.3
34	GND
35	0
36	0
37	0
38	0
39	0
40	0
41	0
42	0
43	2.2
44	GND
45	NC
46	0
47	0
48	0
49	0
50	3.3
51	GND
52	2.2
53	GND
54	3.3
55	GND
56	0
57	GND
58	GND
59	0
60	GND
61	0
62	3.3
63	3.3
64	3.3
65	GND
66	GND
67	3.3
68	GND
69	0
70	3.3
71	GND
72	3.3
73	3.3
74	2.2
75	GND
76	GND
77	GND
78	3.3
79	3.3
80	GND
81	3.3
82	3.3
83	GND
84	GND
85	3.3
86	GND
87	GND
88	GND
89	GND
90	GND
91	NC
92	NC
93	GND
94	2.2
95	1.0
96	2.0
97	1.3
98	NC
99	NC
100	0
101	NC
102	0.2
103	2.2
104	GND
105	0.4
106	1.0
107	1.0
108	1.0
109	0.5
110	2.2
111	3.3
112	GND
113	0.5
114	3.3
115	GND
116	2.2
117	0
118	GND
119	NC
120	NC
121	NC
122	1.4
123	1.3
124	1.4
125	1.4
126	1.0
127	0.9
128	1.1
129	0.9
130	GND
131	NC
132	NC
133	1.6
134	1.6
135	2.2
136	2.2
137	2.2
138	2.1
139	2.2
140	1.1
141	2.2
142	GND
143	3.3
144	GND
145	NC
146	NC
147	1.6
148	1.6
149	2.2
150	2.4
151	2.3
152	2.3
153	2.0
154	1.2
155	GND
156	1.6
157	3.3
158	NC
159	NC
160	0.8
161	0.9
162	0
163	GND
164	1.4
165	1.9
166	1.8
167	1.9
168	1.9
169	1.9
170	1.9
171	1.3
172	2.2
173	GND
174	1.5
175	1.6
176	1.3
177	1.0
178	2.3
179	0.7
180	1.6
181	0.8
182	2.2
183	GND
184	NC
185	NC
186	NC
187	GND
188	GND
189	GND
190	GND
191	GND
192	GND
193	GND
194	GND
195	GND
196	GND
197	2.2
198	GND
199	GND
200	GND
201	GND
202	GND
203	GND
204	GND
205	GND
206	GND
207	3.3
208	GND

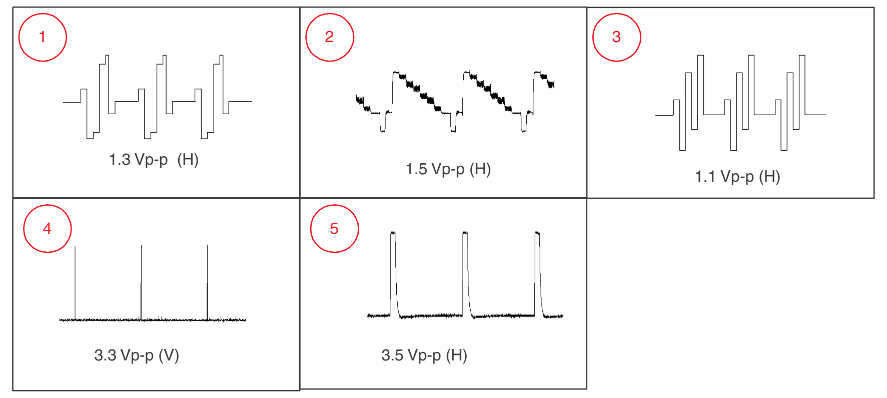
IC3304 pin	volt
1	1.6
2	0
3	0
4	0
5	0
6	1.2
7	1.2
8	0
9	1.9
10	0.1
11	0.8
12	2.0
13	1.6
14	3.3
15	0
16	3.3
17	0
18	3.2
19	3.2
20	3.2
21	3.2
22	3.2
23	2.0
24	1.1
25	GND
26	4.8
27	2.4
28	2.4
29	3.2
30	4.8
31	2.4
32	GND
33	1.5
34	0
35	3.3
36	NC
37	NC
38	0
39	0
40	0
41	0
42	0
43	0
44	0
45	4.9
46	0
47	0
48	1.5
49	0
50	0
51	4.8
52	4.4
53	2.4
54	2.4
55	1.6
56	0.5
57	0
58	3.3
59	3.3
60	1.6
61	3.2
62	4.8
63	2.1
64	0

IC3305 pin	volt
1	3.4
2	GND
3	1.6
4	0.2
5	1.3
6	1.4
7	GND
8	NC
9	GND
10	GND
11	GND
12	1.4
13	2.2
14	3.4

IC3306 pin	volt
1	4.2
2	GND
3	1.9
4	3.3
5	1.6
6	2.2
7	GND
8	NC
9	GND
10	GND
11	GND
12	2.3
13	2.1
14	4.2

All voltages are in V

B BOARD (3/4) WAVEFORMS

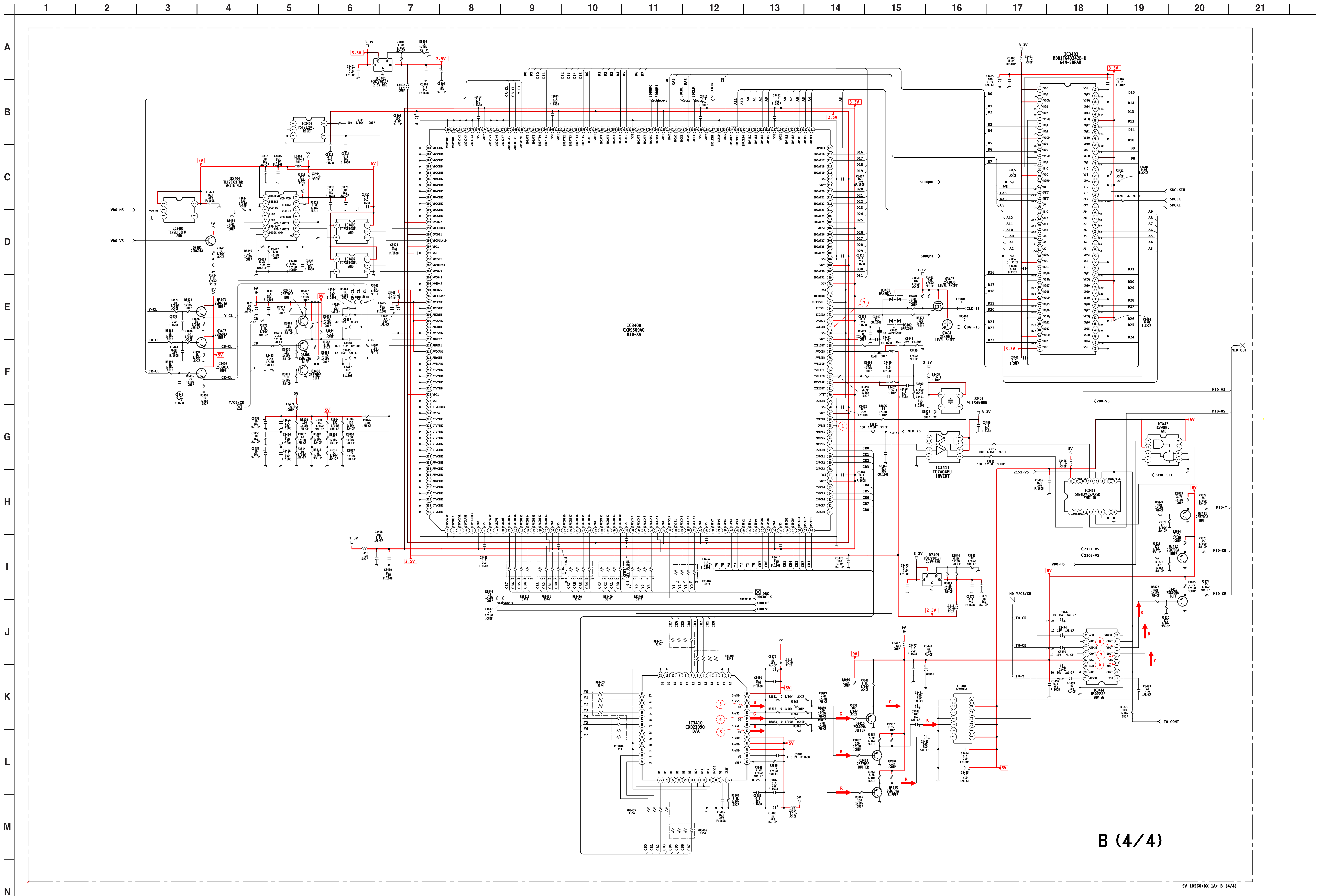


B BOARD TRANSISTOR VOLTAGE LIST

	B	C	E
Q3301	3.9	4.9	3.4
Q3302	4.9	4.9	3.4
Q3303	0.5	4.9	0.1
Q3304	0.5	4.9	0.2
Q3305	3.2	GND	2.3

All voltages in V.

B Board Schematic Diagram (4 of 4)


1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
A
B
C
D
E
F
G
H
I
J
K
L
M
N
IC3408
CXD9509AQ
MID-XA
IC3410
CXD2309Q
D/A
IC3402
IC3411
TC7W04FU
INVERT
IC3413
B (4/4)
SV-10560<DX-1A> B (4/4)

B BOARD IC VOLTAGE LIST

IC3401

pin	volt
I	3.3
G	GND
O	1.2
VC	3.3
NC	

IC3402

pin	volt
1	3.3
2	1.8
3	3.3
4	1.3
5	0.9
6	GND
7	2.4
8	2.2
9	3.3
10	0.9
11	2.8
12	GND
13	0.9
14	NC
15	3.3
16	0.1
17	3.1
18	2.9
19	3.3
20	2.8
21	NC
22	1.7
23	1.7
24	0.1
25	0.1
26	2.3
27	0.1
28	2.4
29	3.3
30	NC
31	1.7
32	GND
33	1.6
34	1.3
35	3.3
36	1.6
37	1.7
38	GND
39	0.9
40	1.7
41	3.3
42	1.1
43	3.3
44	GND
45	1.7
46	GND
47	1.7
48	1.4
49	3.3
50	1.0
51	1.6
52	GND
53	0.9
54	0.9
55	3.3
56	1.1
57	NC
58	GND
59	2.4
60	0
61	2.4
62	2.2
63	1.7
64	1.7
65	1.8
66	0.1
67	2.9
68	1.8
69	NC
70	NC
71	0.1
72	GND
73	NC
74	1.8
75	3.3
76	1.3
77	0.7
78	GND
79	2.5
80	0.7
81	3.3
82	1.0
83	2.8
84	GND
85	1.1
86	GND

IC3403

pin	volt
1	NC
2	GND
3	GND
4	1.7
5	2.5

IC3404

pin	volt
1	4.8
2	GND
3	2.3
4	0.3
5	2.4
6	0.9
7	GND
8	NC
9	0
10	GND
11	GND
12	0.9
13	3.6
14	4.8

IC3405

pin	volt
1	4.8
2	0.3
3	GND
4	0.3
5	4.8

IC3406

pin	volt
1	4.8
2	0
3	GND
4	0
5	4.8

IC3407

pin	volt
1	4.8
2	1.0
3	GND
4	2.4
5	4.8

IC3408

pin	volt
1	GND
2	GND
3	NC
4	NC
5	NC
6	3.3
7	GND
8	GND
9	0
10	0.2
11	0
12	0
13	0
14	0
15	0
16	2.3
17	1.6
18	3.3
19	GND
20	0.6
21	1.1
22	2.2
23	2.2
24	2.4
25	2.4
26	2.3
27	2.2
28	1.6
29	0.9
30	GND
31	1.1
32	1.0
33	1.5
34	1.4
35	1.4
36	2.4
37	1.8
38	GND
39	1.4
40	1.4
41	1.5
42	2.4
43	GND
44	0.8
45	1.0
46	0.7
47	2.4
48	0.9
49	1.0
50	1.1
51	1.2
52	1.9
53	1.4
54	3.3
55	GND
56	1.6
57	1.6
58	1.5
59	1.5
60	1.5
61	1.4
62	2.4
63	0.9
64	0.8
65	0.9
66	3.3
67	GND
68	0.8
69	0.6
70	0.9
71	0.9
72	3.2
73	3.2
74	0.9
75	GND
76	3.3
77	2.5
78	GND
79	1.7
80	3.3
81	NC
82	2.5
83	2.3
84	0.4
85	0
86	0
87	2.3
88	1.6
89	2.5
90	GND
91	1.2
92	3.3
93	3.0
94	3.0
95	GND
96	3.3
97	GND
98	3.3
99	1.1
100	0.9
101	2.5
102	GND
103	0.9
104	1.6
105	1.0
106	1.4
107	3.3
108	1.7
109	1.7
110	1.1
111	1.7
112	0.9
113	1.7
114	3.3
115	GND
116	1.6
117	1.3
118	1.6
119	1.7
120	0
121	2.4
122	2.2
123	1.7
124	1.7
125	1.8
126	3.3
127	GND
128	0.1
129	0.1
130	2.3
131	0.1
132	0.1
133	1.7
134	1.7
135	2.8
136	GND
137	1.6
138	3.3
139	GND
140	1.5
141	0
142	2.6
143	3.0
144	3.1
145	2.5
146	0
147	0
148	0.9
149	2.8
150	GND
151	0.9
152	2.2
153	2.4
154	0.7
155	1.3
156	2.5
157	1.8
158	1.1
159	2.8
160	1.6
161	0.7
162	2.5
163	GND
164	2.5
165	0.7
166	1.3
167	1.8
168	0.9
169	1.1
170	1.1
171	GND
172	GND
173	GND
174	3.3
175	GND
176	GND
177	GND
178	GND
179	GND
180	GND
181	GND
182	GND
183	GND
184	GND
185	GND
186	GND
187	GND
188	GND
189	GND
190	GND
191	GND
192	GND
193	3.3
194	2.4
195	2.4
196	0
197	2.4
198	GND
199	1.0
200	NC
201	0
202	1.0
203	GND
204	GND
205	NC
206	2.4
207	GND
208	1.0
209	2.4
210	1.0
211	GND
212	
213	
214	2.4
215	1.0
216	GND
217	GND
218	GND
219	GND
220	GND
221	1.2
222	GND
223	GND
224	GND
225	GND
226	GND
227	GND
228	GND
229	GND
230	GND
231	GND
232	GND
233	GND
234	GND
235	GND
236	GND
237	GND
238	GND
239	GND
240	GND

IC3409

pin	volt
I	3.3
G	3.3
O	2.5
VC	1.2
NC	0

IC3410

pin	volt
1	GND
2	GND
3	0.9
4	0.9
5	0.6
6	0.8
7	0.9
8	0.8
9	0.9
10	2.4
11	GND
12	GND
13	1.2
14	1.1
15	1.0
16	0.9
17	2.4
18	0.7
19	1.0
20	0.8
21	GND
22	GND
23	1.4
24	1.5
25	1.5
26	1.5
27	1.5
28	1.5
29	1.5
30	1.9
31	1.6
32	1.7
33	1.6
34	GND
35	1.0
36	0
37	2.0
38	2.6
39	4.8
40	4.8
41	4.8
42	1.0
43	0
44	0.5
45	0
46	0
47	0
48	4.8

IC3411

pin	volt
1	3.2
2	NC
3	3.2
4	GND
5	0.0
6	3.3
7	0
8	3.3

IC3413

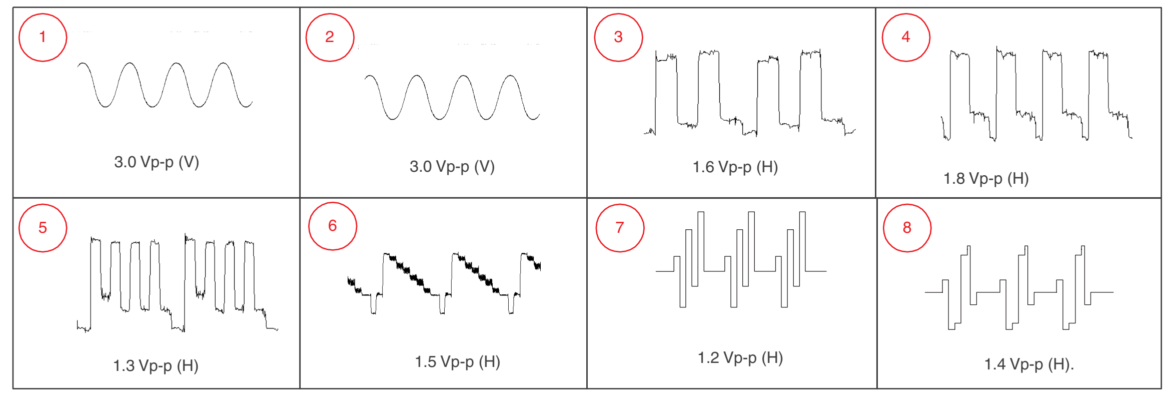
pin	volt
1	GND
2	GND
3	0.1
4	0.1
5	0.3
6	GND
7	GND
8	GND
9	5.0
10	5.0
11	5.0
12	0
13	0
14	0
15	GND
16	4.9

IC3414

pin	volt
1	4.6
2	5.0
3	3.1
4	GND
5	3.1
6	3.1
7	5.0
8	4.6
9	4.6
10	GND
11	4.6
12	5.0
13	8.9
14	4.6
15	GND
16	4.6

All voltages are in V

B BOARD (4/4) WAVEFORMS

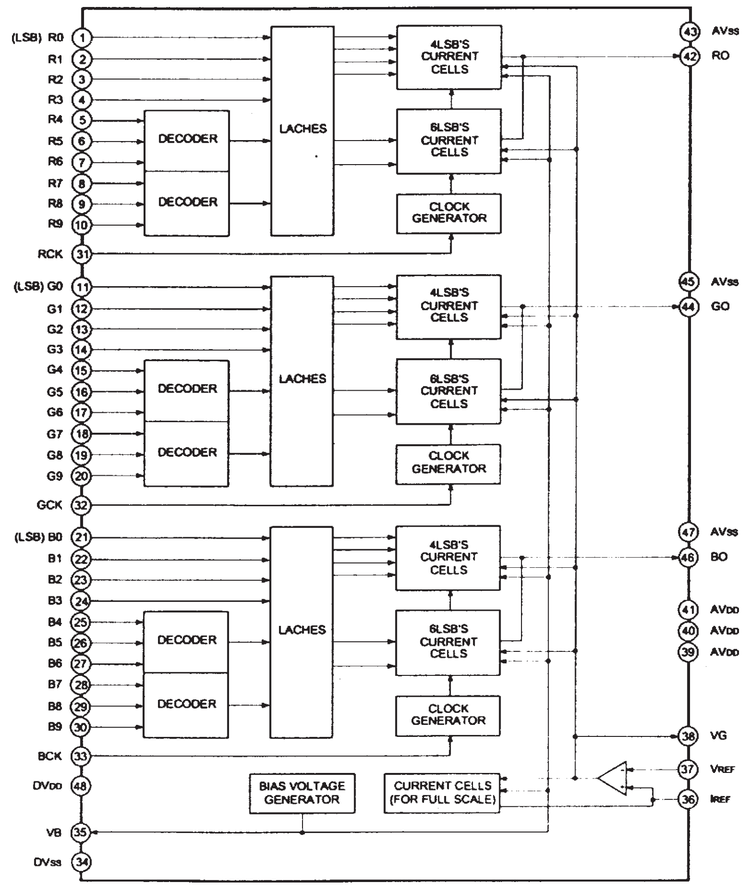


B BOARD TRANSISTOR VOLTAGE LIST

	B	C	E
Q3401	0	4.9	0
Q3402	3.3	4.6	3.1
Q3403	1.0	4.9	0.5
Q3404	3.3	4.6	3.1
Q3405	2.3	GND	3.0
Q3406	2.3	GND	3.0
Q3407	1.7	4.9	1.2
Q3408	2.3	GND	3.0
Q3409	1.7	4.9	1.2
Q3410	0.5	GND	1.2
Q3411	1.5	GND	2.2
Q3412	1.5	GND	2.2
Q3413	1.5	GND	2.2
Q3414	0.8	GND	1.5
Q3415	1.4	GND	2.0

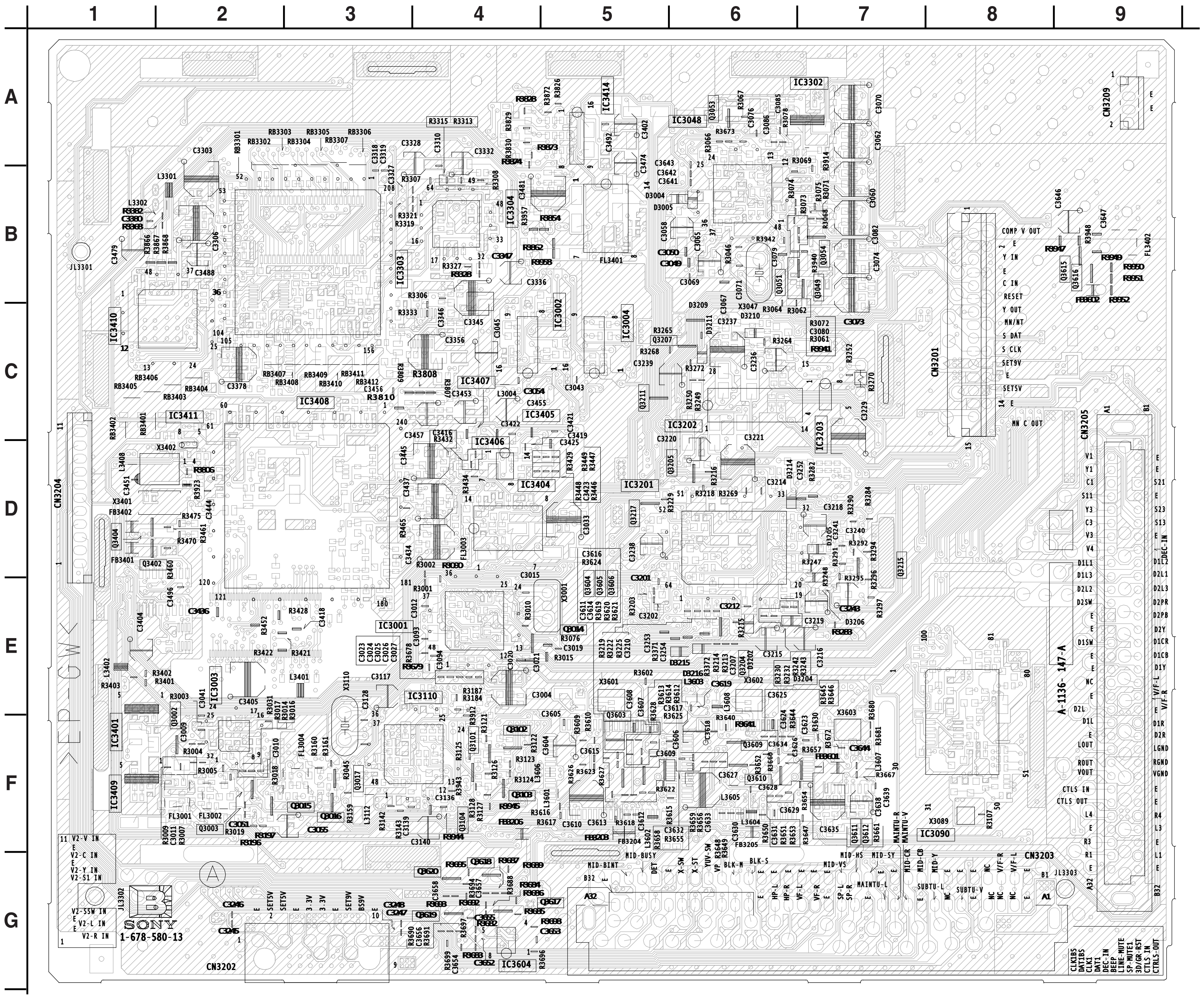
All voltages in V.

B BOARD: IC2309Q

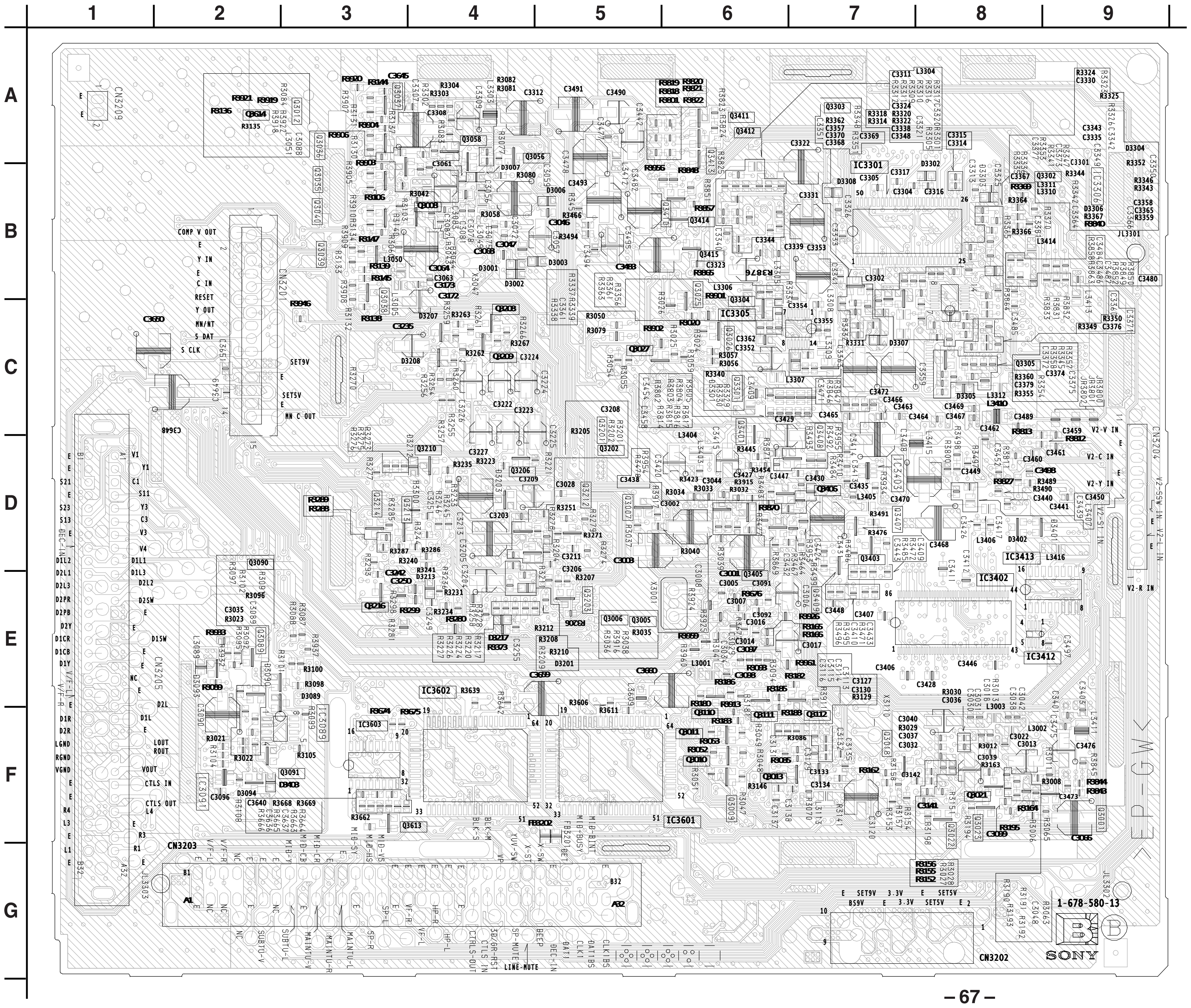

(LSB) R0
R1
R2
R3
R4
R5
R6
R7
R8
R9
RCK
(LSB) G0
G1
G2
G3
G4
G5
G6
G7
G8
G9
GCK
(LSB) B0
B1
B2
B3
B4
B5
B6
B7
B8
B9
BCK
DVDD
VB
DVSS
DECODER
LACHES
4LSB'S CURRENT CELLS
6LSB'S CURRENT CELLS
CLOCK GENERATOR
BIAS VOLTAGE GENERATOR
CURRENT CELLS (FOR FULL SCALE)
AVSS
RO
AVSS
GO
AVSS
BO
AVDD
AVDD
AVDD
VG
VREF
IREF

B [AV-SW1, AUDIO SW, MID-UCOM, YCT-MAIN, MAIN-CCD V-CHIP, SUB-CCD V-CHIP, 3CH 8 BIT A/D, DRC-MF, MID-XA, A/D]

COMPONENT SIDE



CONDUCTOR SIDE

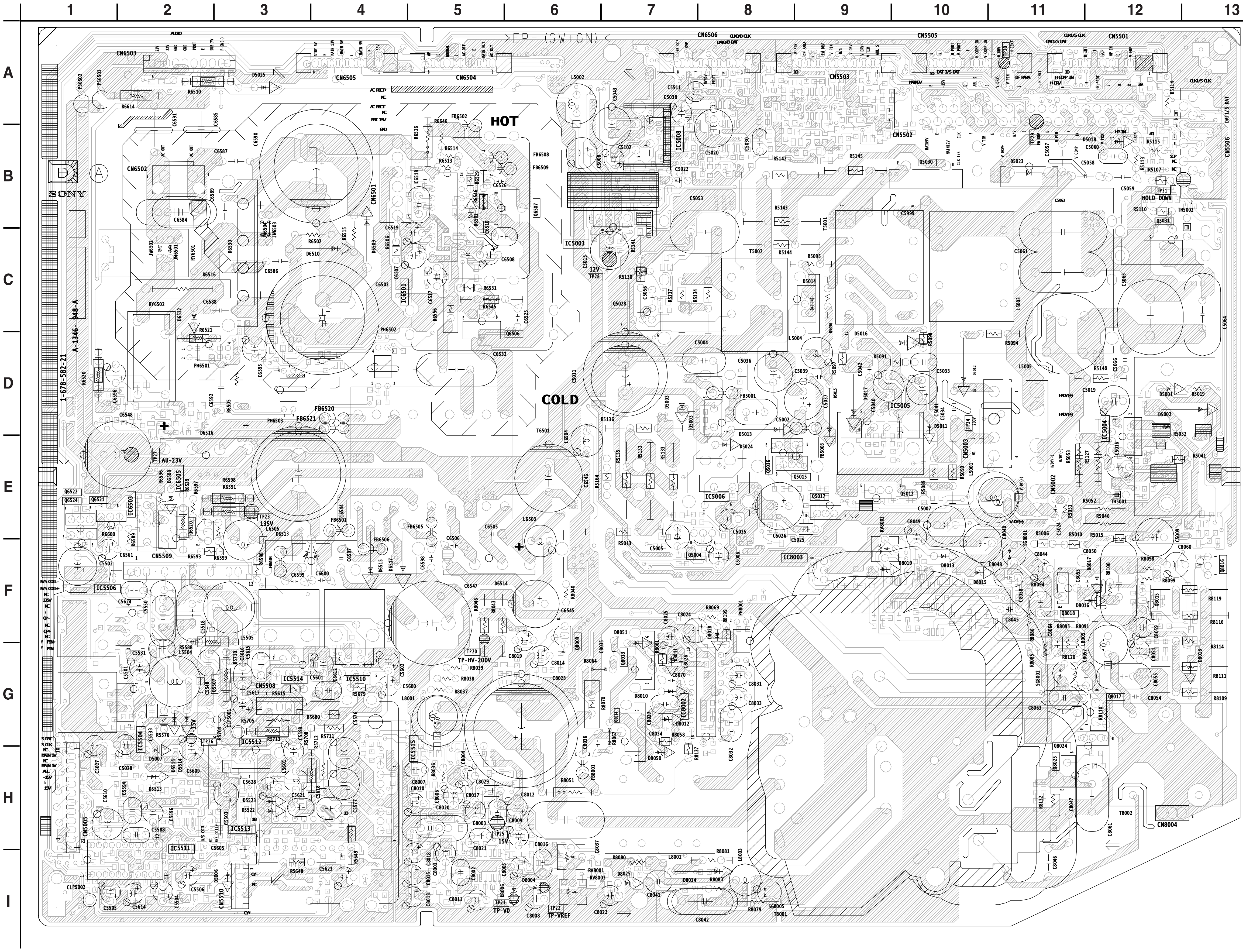


B BOARD LOCATOR LIST

DIODE		
	Component	**Conductor**
D3001		B-4
D3002		B-4
D3003		B-4
D3004	B-5	
D3005	B-5	
D3006		B-4
D3007		B-4
D3089		F-3
D3090		F-3
D3201		E-5
D3202	E-6	
D3204	E-6	
D3205	D-7	
D3206	E-7	
D3209	C-5	
D3210	C-6	
D3211	C-6	
D3212		D-3
D3213		E-3
D3214	D-6	
D3301		C-6
D3401		D-8
D3402		D-8
D3403		F-2
IC		
	Component	**Conductor**
IC3001	E-3	
IC3002		C-4
IC3003		E-2
IC3004	C-5	
IC3048	A-5	
IC3089		F-3
IC3090	G-7	
IC3091		F-2
IC3110	E-3	
IC3201	D-5	
IC3202	C-5	
IC3203	D-6	
IC3301		B-7
IC3302	A-6	
IC3303	B-3	
IC3304	B-4	
IC3305		C-6
IC3306		B-9
IC3401	F-1	
IC3402		E-8
IC3403		D-7
IC3404	D-4	
IC3405	C-4	
IC3406	D-4	
IC3407	C-4	
IC3408	C-3	
IC3409	F-1	
IC3410	C-1	
IC3411	C-2	
IC3412		E-8
IC3413		D-8
IC3414	A-5	
IC3601		F-5
IC3602		E-4
IC3603		F-3
IC3604	G-4	

TRANSISTOR		
	Component	**Conductor**
Q3001		G-9
Q3002	F-2	
Q3003	F-2	
Q3005		E-5
Q3006		E-5
Q3007		D-5
Q3008		B-3
Q3009		F-6
Q3010		F-5
Q3011		F-5
Q3014	E-5	
Q3015	F-3	
Q3016	F-3	
Q3017	F-3	
Q3018		F-7
Q3021		F-8
Q3022		F-8
Q3023		F-8
Q3025		C-5
Q3026		C-6
Q3027		C-5
Q3035		B-3
Q3036		A-3
Q3037		A-3
Q3038		C-3
Q3039		B-3
Q3040		B-3
Q3049	B-6	
Q3051	B-6	
Q3053	A-6	
Q3054	B-6	
Q3056		B-4
Q3058		A-4
Q3089		E-2
Q3090		D-2
Q3091		F-2
Q3101	F-4	
Q3102	F-4	
Q3103	F-4	
Q3104	F-4	
Q3110		F-6
Q3111		F-6
Q3112		F-6
Q3201		D-5
Q3202		D-5
Q3203		E-5
Q3204	E-5	
Q3205	D-5	
Q3206		D-4
Q3207	C-5	
Q3208		C-4
Q3209		C-4
Q3210		D-3
Q3211	C-5	
Q3213		D-3
Q3214		D-3
Q3215	D-7	
Q3216		E-3
Q3217	D-5	
Q3301		C-6
Q3302		B-8
Q3303		A-6
Q3304		C-6
Q3305		C-8
Q3401		D-6
Q3402	E-1	
Q3403		D-7
Q3404	D-1	
Q3405		E-6
Q3406		D-6
Q3407		D-7
Q3408		D-6
Q3409		E-6
Q3410		B-5
Q3411		A-6
Q3412		A-6
Q3413		B-6
Q3414		B-5
Q3415		B-6
Q3603	E-5	
Q3604	G-3	
Q3605	G-4	
Q3606	G-4	
Q3609	F-6	
Q3610	F-6	
Q3611	F-7	
Q3612	F-7	
Q3613		F-3
Q3617	G-4	
Q3618	G-4	
Q3619	G-4	
Q3620	G-4	

D [POWER SUPPLY, AC RECT, H/V DRIVE, H/V DY, DEFLECTION] COMPONENT SIDE

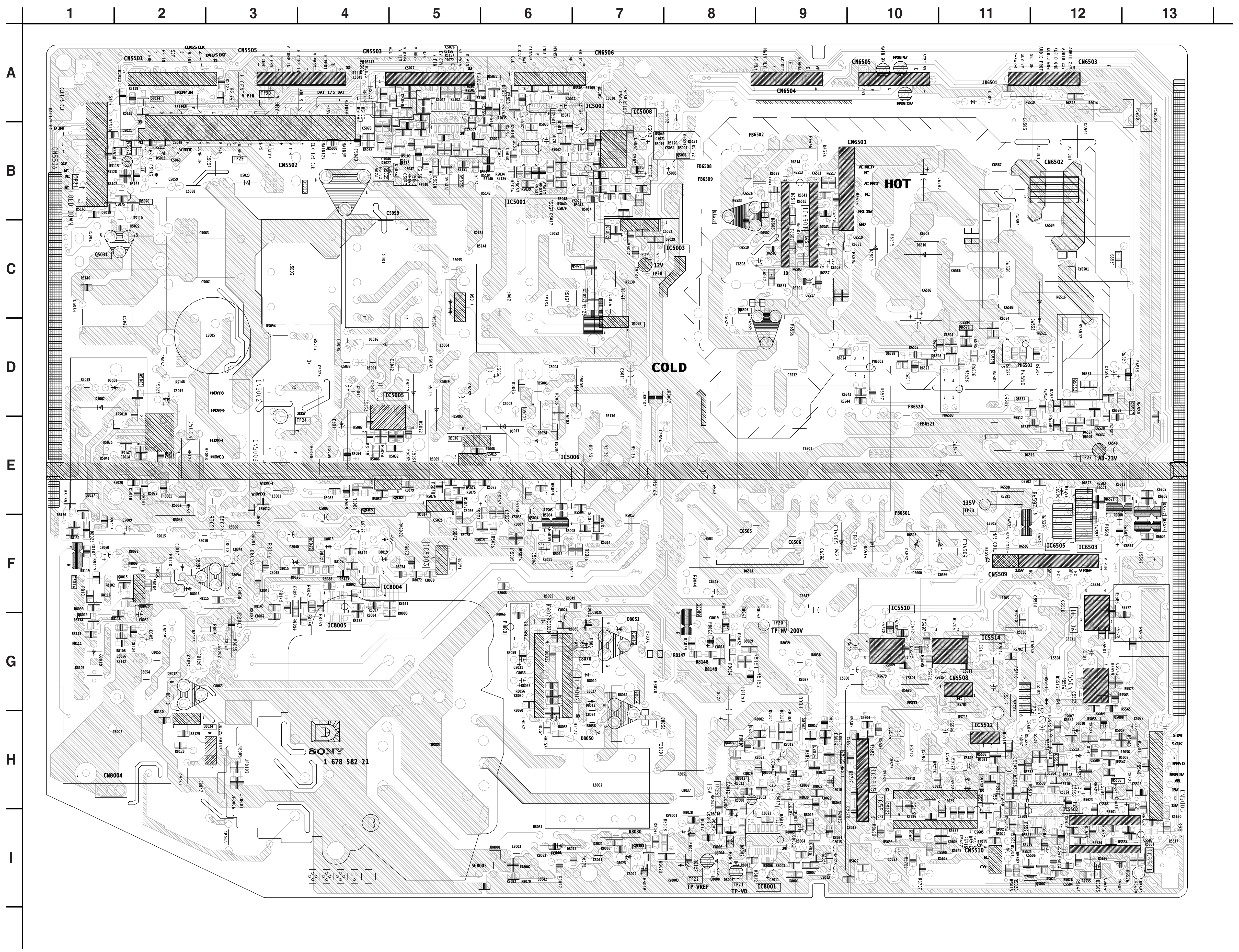

1
2
3
4
5
6
7
8
9
10
11
12
13
A
B
C
D
E
F
G
H
I
HOT
COLD
SONY
A-1346-948-A
1-678-582-21
CN6503
CN6505
CN6504
CN6506
CN5505
CN5503
CN5501
CN5502
CN5506
CN6502
CN6501
CN5509
CN5508
CN6505
CN8004
IC5003
IC5008
IC5005
IC5006
IC8003
IC5004
IC5506
IC5510
IC5514
IC5512
IC5513
IC5511
IC5504
IC5515
IC6503
IC6505
IC6501
TP-HV-200V
TP-VD
TP-VREF
AU-23V
135V
15V
12V
HOLD DOWN

D BOARD LOCATOR LIST

DIODE		
	Component	Conductor
D5001	D-13	
D5002	D-13	
D5003	D-7	
D5004		E-6
D5005		F-7
D5006	J-3	
D5007	H-2	
D5008		H-12
D5009		H-12
D5010		H-12
D5011	E-10	
D5012	D-11	
D5013	E-8	
D5014	C-9	
D5015	E-9	
D5016	D-9	
D5017	E-9	
D5018	B-12	
D5019		B-4
D5021		B-7
D5023	B-11	
D5024	E-7	
D5025	A-3	
D5026		B-4
D5027		B-5
D5028		B-5
D5029		C-8
D5031		I-11
D5032		E-4
D5501		I-13
D5502		J-12
D5503		J-13
D5505		A-7
D5506		J-12
D5507		B-6
D5513	I-2	
D5514	H-2	
D5515	H-2	
D5522	I-3	
D5523	I-3	
D6501		E-12
D6502	C-5	
D6507		C-9
D6508	E-2	
D6509	C-4	
D6510	C-3	
D6513	F-3	
D6514	G-6	
D6515	F-4	
D6516	E-2	
D6517	F-5	
D6522		E-12
D6530		C-11
D6531		C-13
D6532	D-2	
D6533		D-12
D6537		E-12
D8002		J-9
D8003		J-9
D8004	J-6	
D8005		I-8
D8006	J-6	
D8007		J-9
D8009		G-8
D8010		H-7
D8013		F-4
D8014		J-6
D8016		G-2
D8017	F-12	
D8018	G-13	
D8019	F-10	
D8020		J-8
D8021		J-7
D8022		G-6
D8025	J-7	
D8026		G-6
D8027		H-9

D [POWER SUPPLY, AC RECT, H/V DRIVE, H/V DY, DEFLECTION]

CONDUCTOR SIDE



D BOARD LOCATOR LIST

IC	Component	Conductor
IC5001		B-6
IC5002		C-7
IC5003		C-8
IC5004	E-12	
IC5005	E-10	
IC5006	F-8	
IC5007		A-5
IC5008		A-7
IC5501		A-6
IC5502		I-12
IC5504	H-2	
IC5506	G-1	
IC5510	H-4	
IC5511	I-2	
IC5512	H-3	
IC5513	I-3	
IC5514	H-3	
IC5515	H-5	
IC6501	C-5	
IC6503	E-2	
IC6505	E-2	
IC8001		J-9
IC8002	H-7	
IC8003	F-9	

TRANSISTOR	Component	Conductor
IC8004		G-4
Q5001		C-7
Q5002		C-7
Q5003	E-8	
Q5004	F-8	
Q5005		D-2
Q5006		J-12
Q5007		J-12
Q5008		H-13
Q5011		A-6
Q5012		F-4
Q5013		F-4
Q5014		F-5
Q5015		E-6
Q5016		E-5
Q5017		F-5
Q5018		B-6
Q5019		B-1
Q5020		B-2
Q5021		B-2
Q5022		B-2
Q5023		A-5
Q5026		C-7
Q5027		C-7
Q5028		D-7
Q5030	B-10	
Q5031	C-13	
Q5033		B-5
Q5034		B-5
Q5035		B-5
Q5036		B-5
Q5037		B-5
Q5501		I-11
Q5502		I-11
Q5503		I-11
Q5504		I-12
Q5505		I-12
Q5506		I-13
Q5507	H-2	
Q5508		I-12
Q5509		I-12
Q6503		D-11
Q6506		D-8
Q6507	C-6	
Q6520		F-12
Q6521	F-1	
Q6522	F-1	
Q6524	F-1	
Q6526		D-11
Q6527		D-13
Q6528		D-10
Q6529		D-11
Q6530		E-12
Q6531		E-11
Q6532		E-12
Q8001		H-9
Q8002		I-8
Q8003		I-9
Q8004		I-9
Q8007		I-9
Q8008		J-9
Q8009	G-6	
Q8010		J-7
Q8013	G-7	
Q8014	H-7	
Q8015	G-13	
Q8016		G-1
Q8018	G-12	
Q8019		G-1
Q8020		G-2
Q8022		F-4
Q8023		F-4

D BOARD (*) MODEL VARIANCE LIST

REF NO.	LOC	KV-32XBR400	KV-36XBR400 KV-36XBR400H	KV-38DRC1C
C6584	C-4	0.047 125V	0.047 125V	0.047 300V
D6509	D-8	ERC04-06SE	ERC04-06SE	#
D6510	D-8	ERC04-06SE	ERC04-06SE	#
JW6503	D-7	7.5MM	7.5MM	#
JW6504	D-7	7.5MM	7.5MM	#

D BOARD IC VOLTAGE LIST

IC6501	
pin	volt
1	2.5
2	1.8
3	2.2
4	2.5
5	GND
6	0.0
7	4.0
8	17.2
9	GND
10	10.4
11	0.0
12	4.6
13	NC
14	163.6
15	153.5
16	157.6
17	NC
18	1.7

IC6503	
pin	volt
1	134.0
2	NC
3	2.5
4	11.8
5	GND

IC6505	
pin	volt
1	134.9
2	15.7
3	GND

All voltages are in V

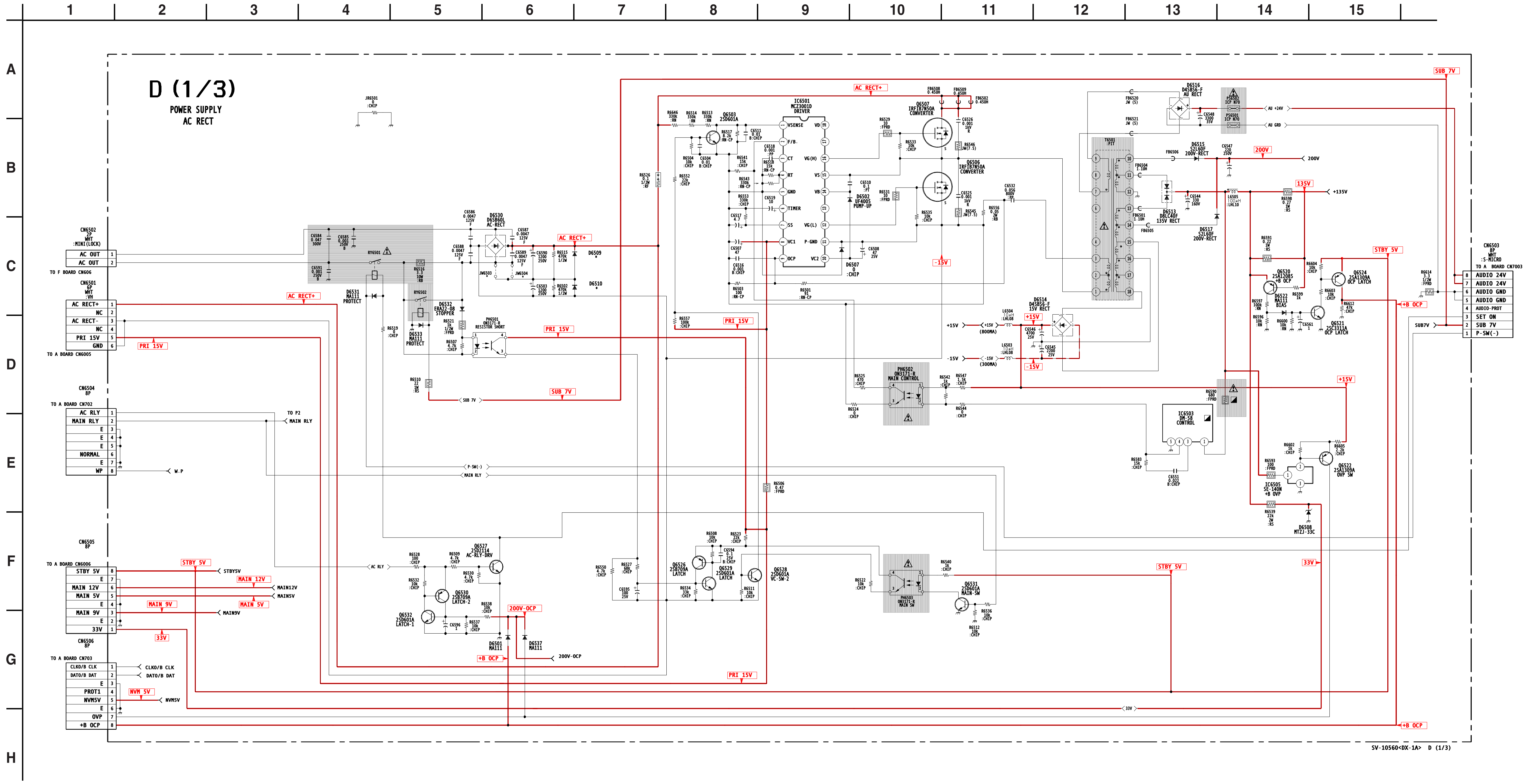
D BOARD TRANSISTOR VOLTAGE LIST

	B	C	E
Q6503	0	2.5	0
Q6520	131.0	0	132.0
Q6521	0	2.1	GND
Q6522	15.7	GND	15.7
Q6524	2.1	0.4	4.9
Q6526	5.9	0	5.9
Q6527	0.6	0	0
Q6528	0.6	0	0
Q6529	0	5.9	0
Q6530	4.7	0	4.7
Q6531	0.6	0	GND
Q6532	0	4.7	GND

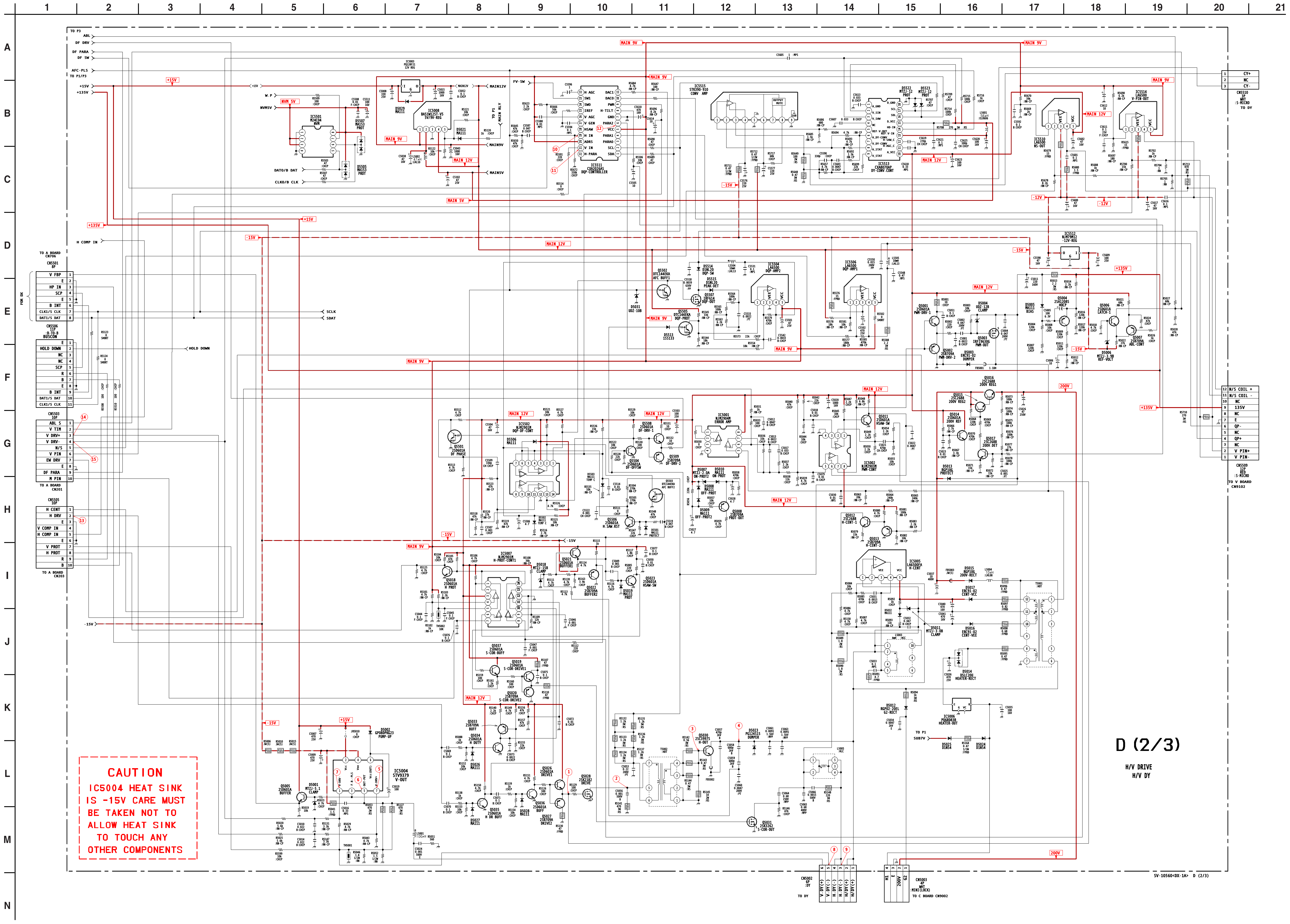
	D	G	S
Q6506	4.7	149.2	0
Q6507	154.4	303.3	150.0

All voltages in V.

D Board Schematic Diagram (1 of 3)

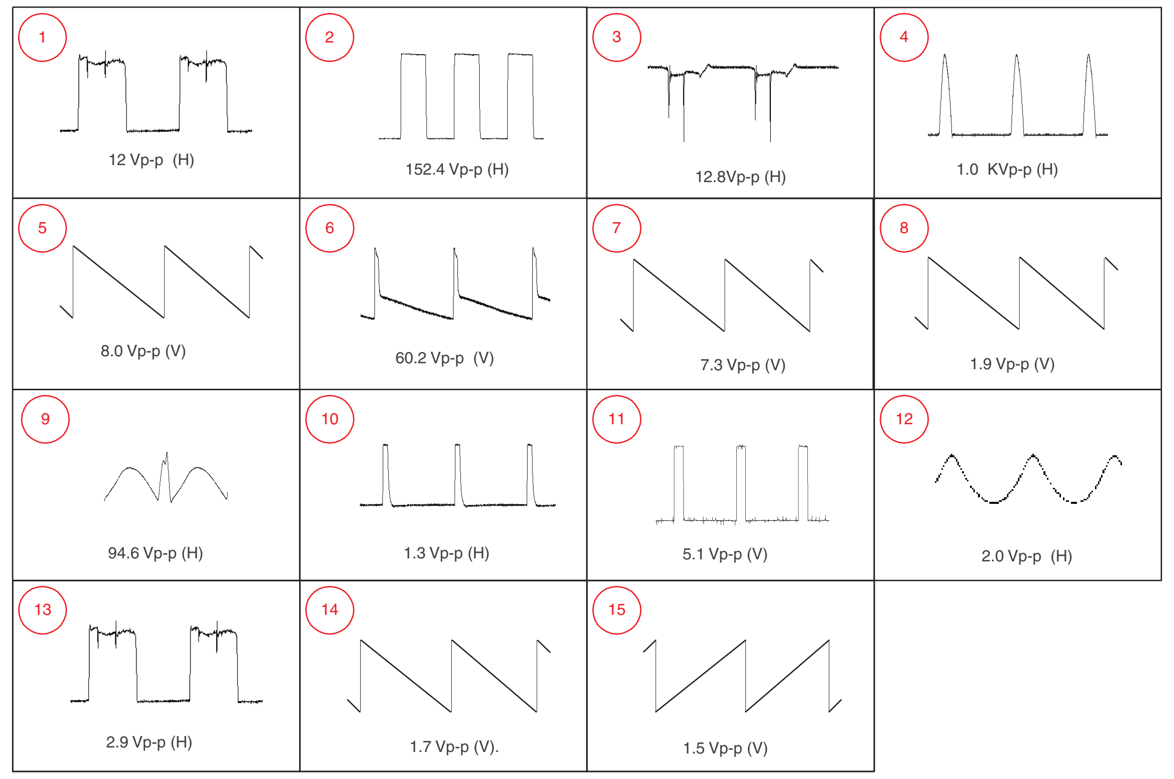


D Board Schematic Diagram (2 of 3)



CAUTION
IC5004 HEAT SINK
IS -15V CARE MUST
BE TAKEN NOT TO
ALLOW HEAT SINK
TO TOUCH ANY
OTHER COMPONENTS

D BOARD WAVEFORMS (2 of 3)



D BOARD TRANSISTOR VOLTAGE LIST

	B	C	E
Q5001	2.9	12.0	3.3
Q5002	2.9	GND	3.3
Q5003	127.4	134.1	23.3
Q5004	132.0	0	133.0
Q5005	-0.5	15.6	0.1
Q5006	-12.0	1.0	-12.6
Q5007	4.4	-12.6	4.8
Q5008	11.9	0	10.7
Q5011	0.1	3.9	GND
Q5012	3.7	97.7	3.2
Q5013	3.1	GND	3.7
Q5014	6.6	12.1	6.1
Q5015	202.8	212.4	203.2
Q5016	203.2	212.4	202.6
Q5017	6.5	164.8	6.1
Q5018	0.6	1.9	GND
Q5019	3.7	12.1	2.9
Q5020	3.7	GND	2.9
Q5021	0.4	9.0	0.5
Q5022	0.4	GND	1.1
Q5023	0.4	3.9	GND
Q5026	5.2	12.1	5.2
Q5027	5.2	0	5.2
Q5030	132.0	0	GND
Q5033	10.0	1.4	10.5
Q5034	0	1.4	GND
Q5035	0	2.5	GND
Q5036	0.1	5.2	GND
Q5037	3.1	12.1	GND
Q5501	2.4	12.1	3.7
Q5502	0.5	5.4	GND
Q5503	0.5	2.4	GND
Q5504	0	4.0	GND
Q5505	0	4.2	GND
Q5506	0.3	3.6	GND
Q5508	4.0	12.1	4.6
Q5509	4.0	GND	4.6

	D	G	S
Q5028	5.2	33.5	0
Q5031	2.9	12.6	GND
Q5507	5.4	6.9	GND

All voltages in V.

D BOARD IC VOLTAGE LIST

IC5001	
pin	volt
1	11.0
2	11.0
3	1.7
4	GND
5	4.0
6	4.0
7	5.9
8	12.1

IC5002	
pin	volt
1	0.1
2	6.0
3	3.8
4	GND
5	2.3
6	3.7
7	2.9
8	12.1

IC5003	
pin	volt
I	15.6
G	GND
O	12.1

IC5004	
pin	volt
1	1.2
2	15.6
3	-12.6
4	-14.5
5	0.2
6	16.2
7	1.2

IC5005	
pin	volt
1	100.0
2	99.7
3	95.3
4	100.0
5	104.6

IC5006	
pin	volt
I	7.8
G	GND
O	6.3
VCC	2.7

IC5007	
pin	volt
1	3.1
2	0.6
3	12.1
4	1.5
5	2.3
6	3.9
7	2.8
8	0.0
9	3.0
10	1.4
11	6.1
12	GND
13	2.5
14	0.6

IC5008	
pin	volt
1	9.1
2	12.0
3	GND
4	5.0
5	5.2

IC5501	
pin	volt
1	GND
2	5.0
3	5.0
4	GND
5	4.6
6	4.6
7	5.0
8	5.0

IC5502	
pin	volt
1	5.4
2	2.4
3	12.1
4	3.6
5	3.4
6	3.4
7	3.9
8	1.0
9	1.0
10	0.0
11	0.0
12	GND
13	3.7
14	0

IC5504	
pin	volt
1	4.2
2	4.2
3	GND
4	5.5
5	9.0

IC5506	
pin	volt
1	4.3
2	4.3
3	-15.5
4	4.4
5	9.0

IC5510	
pin	volt
1	0.6
2	0.6
3	-11.9
4	2.4
5	12.1

IC5511	
pin	volt
1	4.6
2	4.6
3	4.0
4	4.2
5	9.0
6	4.2
7	GND
8	4.2
9	1.9
10	4.4
11	4.4
12	6.4
13	NC
14	8.2
15	1.9
16	4.0
17	4.9
18	NC
19	3.6
20	9.0
21	0.9
22	3.4

IC5512	
pin	volt
I	-15.8
G	GND
O	-12.0

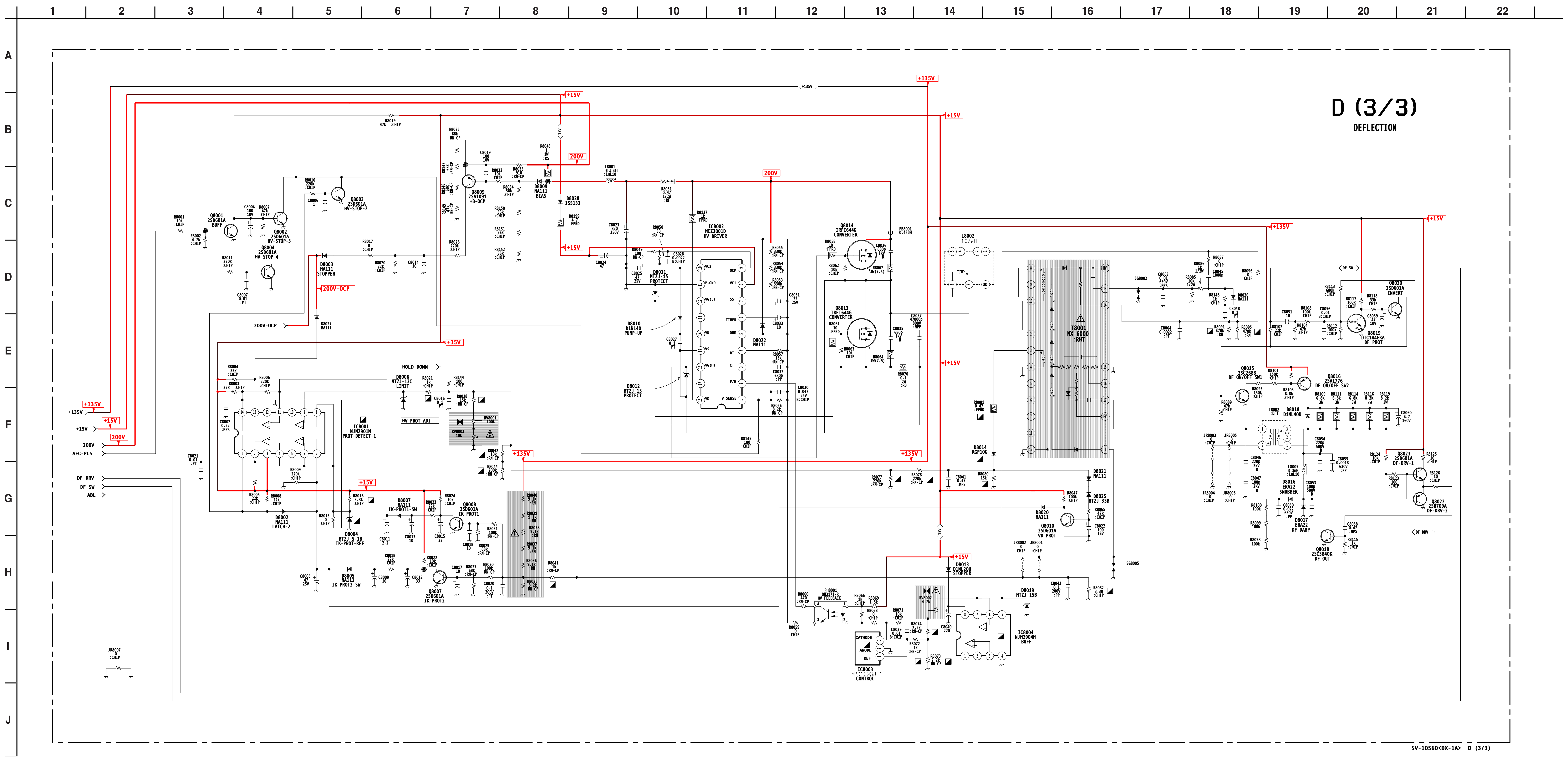
IC5513	
pin	volt
1	4.5
2	4.9
3	4.9
4	4.6
5	5.0
6	5.0
7	NC
8	5.0
9	5.0
10	12.1
11	4.0
12	5.0
13	5.0
14	0.5
15	1.1
16	4.6
17	4.6
18	GND

IC5514	
pin	volt
1	0.3
2	0.3
3	-12.0
4	0.7
5	9.0

IC5515	
pin	volt
1	3.4
2	3.4
3	-9.6
4	-15.3
5	GND
6	12.0
7	-14.0
8	2.7
9	GND

All voltages are in V

D Board Schematic Diagram (3 of 3)


1
2
3
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7
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11
12
13
14
15
16
17
18
19
20
21
22
A
B
C
D
E
F
G
H
I
J
D (3/3)
DEFLECTION
+135V
+15V
200V
AFC-PLS
DF DRV
DF SW
ABL
200V-OCP
HOLD DOWN
HV-PROT-ADJ
IC8001
NJM2901M
PROT-DETECT-1
IC8002
MC25001D
HV DRIVER
IC8003
CONTROL
IC8004
NJM2904M
BUFF
Q8013
IRFI644G
CONVERTER
Q8014
IRFI644G
CONVERTER
T8001
NX-6000
:RHT
L8002
107µH
FB8001
0.45UH
Q8009
2SA1091
+B-OCP
Q8010
2SD601A
VD PROT
Q8015
2SC2688
DF ON/OFF SW1
Q8016
2SA1776
DF ON/OFF SW2
Q8018
2SC3840K
DF OUT
Q8019
DTC144EKA
DF PROT
Q8020
2SD602A
INVERT
Q8022
2SD601A
DF-DRV-1
Q8023
2SB709A
DF-DRV-2
D8014
RGP10G
D8020
MA111
D8021
MA111
D8025
MTZJ-33B
SG8002
SG8005
SV-10560<DX-1A> D (3/3)

D BOARD TRANSISTOR VOLTAGE LIST

	B	C	E
Q8001	0.1	0	GND
Q8002	0	1.6	GND
Q8003	0.2	1.6	GND
Q8004	0	1.6	GND
Q8007	0.6	0	GND
Q8008	0.6	0	GND
Q8009	196.0	0	196.0
Q8010	2.1	0	GND
Q8015	0.5	0	GND
Q8016	134.5	134.7	135.1
Q8018	-5.5	94.4	GND
Q8019	3.5	0	GND
Q8020	0	0.5	GND
Q8022	4.6	GND	4.9
Q8023	4.6	15.5	4.9

	D	G	S
Q8013	4.6	94.8	GND
Q8014	99.0	198.0	93.2

All voltages in V.

D BOARD IC VOLTAGE LIST

IC8001	
pin	volt
1	0.1
2	0
3	15.6
4	5.0
5	0
6	5.0
7	0
8	5.0
9	4.2
10	5.0
11	0.1
12	GND
13	0.1
14	0.1

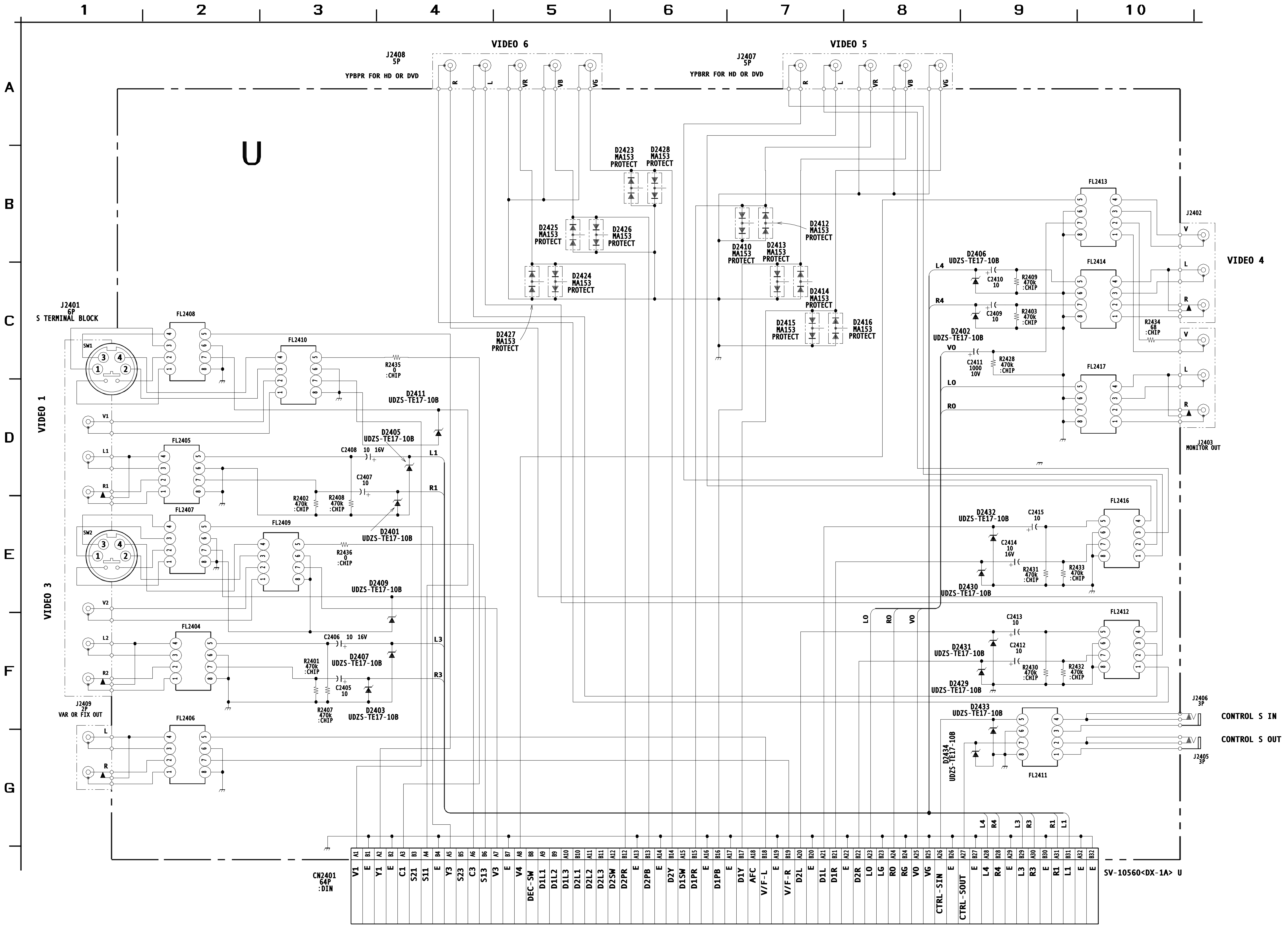
IC8002	
pin	volt
1	1.6
2	1.8
3	2.2
4	2.5
5	GND
6	0
7	4.7
8	15.6
9	0
10	10.4
11	GND
12	4.5
13	NC
14	104.8
15	94.8
16	99.0
17	NC
18	198.0

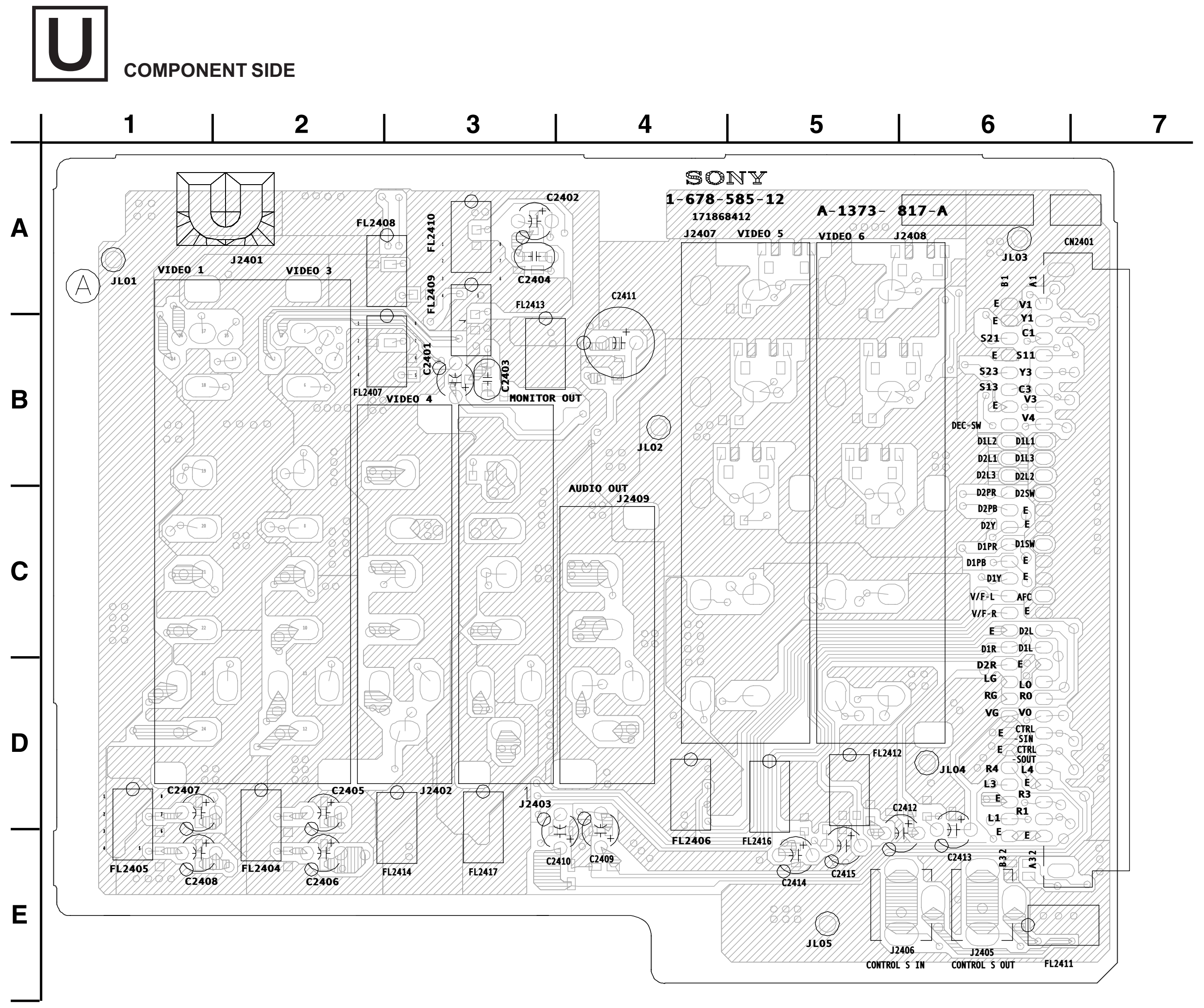
IC8003	
pin	volt
1	2.4
2	GND
3	11.0

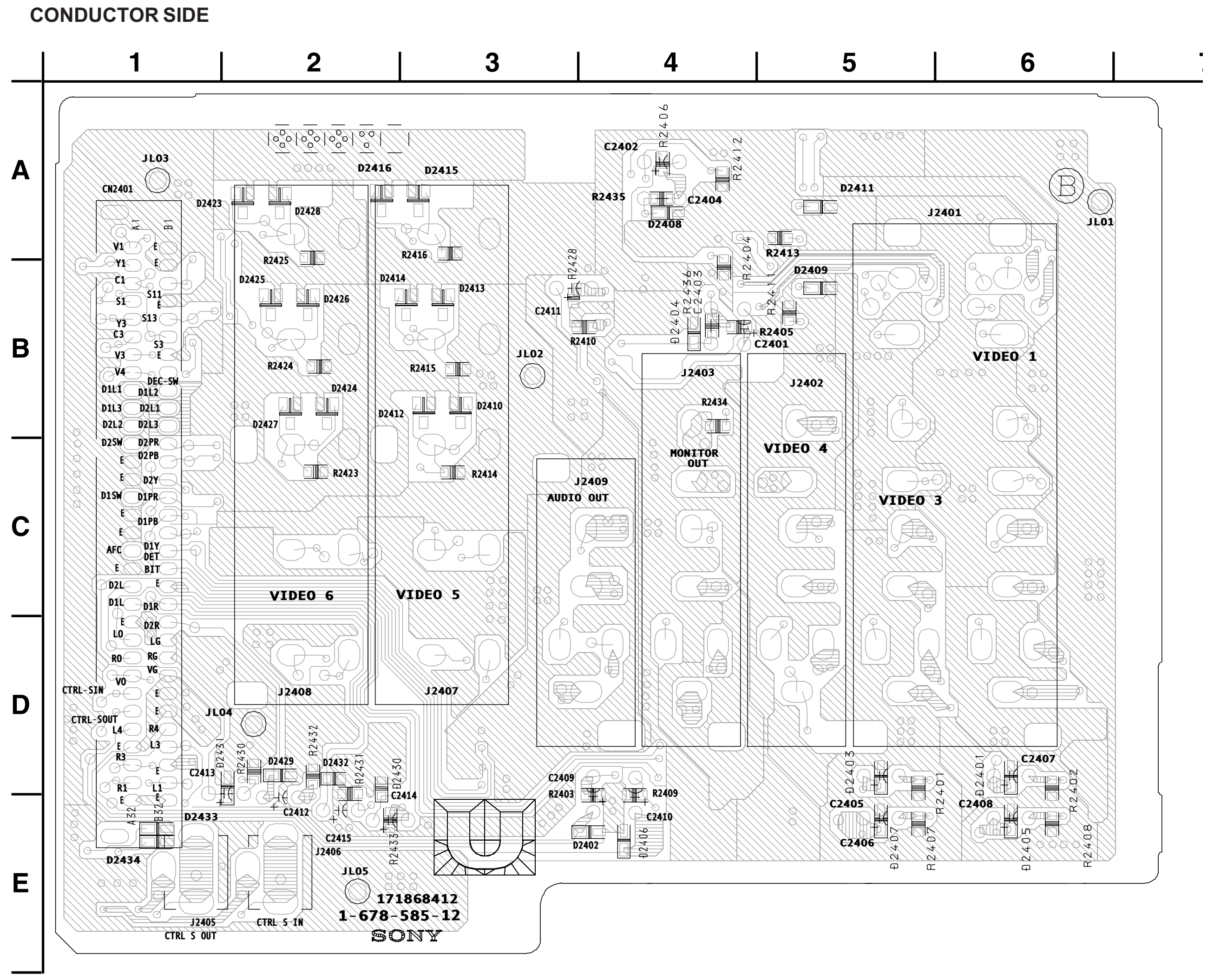
IC8004	
pin	volt
1	14.0
2	0.9
3	0.9
4	GND
5	7.1
6	7.1
7	7.1
8	15.2

All voltages are in V

U Board Schematic Diagram


1
2
3
4
5
6
7
8
9
10
A
B
C
D
E
F
G
U
VIDEO 6
J2408
5P
YPBPR FOR HD OR DVD
VIDEO 5
J2407
5P
YPBRR FOR HD OR DVD
R
L
VR
VB
VG
D2423
MA153
PROTECT
D2428
MA153
PROTECT
D2425
MA153
PROTECT
D2426
MA153
PROTECT
D2424
MA153
PROTECT
D2427
MA153
PROTECT
D2410
MA153
PROTECT
D2412
MA153
PROTECT
D2413
MA153
PROTECT
D2414
MA153
PROTECT
D2415
MA153
PROTECT
D2416
MA153
PROTECT
FL2413
FL2414
FL2417
J2402
VIDEO 4
V
L
R
D2406
UDZS-TE17-10B
D2402
UDZS-TE17-10B
C2410
10
R2409
470k
:CHIP
C2409
10
R2403
470k
:CHIP
C2411
1000
10V
R2428
470k
:CHIP
R2434
68
:CHIP
L4
R4
VO
LO
RO
J2403
MONITOR OUT
J2401
6P
S TERMINAL BLOCK
SW1
SW2
VIDEO 1
VIDEO 3
V1
L1
R1
V2
L2
R2
FL2408
FL2410
FL2405
FL2407
FL2409
FL2404
FL2406
R2435
0
:CHIP
R2436
0
:CHIP
D2411
UDZS-TE17-10B
D2405
UDZS-TE17-10B
D2401
UDZS-TE17-10B
D2409
UDZS-TE17-10B
D2407
UDZS-TE17-10B
D2403
UDZS-TE17-10B
C2408 10 16V
C2407
10
C2406 10 16V
C2405
10
R2402
470k
:CHIP
R2408
470k
:CHIP
R2401
470k
:CHIP
R2407
470k
:CHIP
L3
R3
J2409
2P
VAR OR FIX OUT
D2432
UDZS-TE17-10B
D2430
UDZS-TE17-10B
D2431
UDZS-TE17-10B
D2429
UDZS-TE17-10B
D2433
UDZS-TE17-10B
D2434
UDZS-TE17-10B
C2415
10
C2414
10
16V
C2413
10
C2412
10
R2431
470k
:CHIP
R2433
470k
:CHIP
R2430
470k
:CHIP
R2432
470k
:CHIP
FL2416
FL2412
FL2411
J2406
3P
CONTROL S IN
CONTROL S OUT
J2405
3P
CN2401
64P
:DIN
SV-10560<DX-1A> U
V1
E
Y1
E
C1
S21
S11
E
Y3
S23
C3
S13
V3
E
V4
DEC-SW
D1L1
D1L2
D1L3
D2L1
D2L2
D2L3
D2SW
D2PR
E
D2PB
E
D2Y
D1SW
D1PR
E
D1PB
E
D1Y
AFC
V/F-L
E
V/F-R
E
D2L
E
D1L
D1R
E
D2R
LO
LG
RO
RG
VO
VG
E
CTRL-SIN
E
CTRL-SOUT
E
L4
R4
E
L3
R3
E
R1
L1
E
E

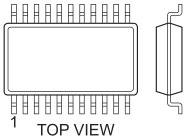

U
COMPONENT SIDE
1
2
3
4
5
6
7
A
B
C
D
E
SONY
1-678-585-12
A-1373-817-A
171868412
VIDEO 1
VIDEO 3
VIDEO 4
VIDEO 5
VIDEO 6
MONITOR OUT
AUDIO OUT
CONTROL S IN
CONTROL S OUT


CONDUCTOR SIDE
1
2
3
4
5
6
A
B
C
D
E
VIDEO 1
VIDEO 3
VIDEO 4
VIDEO 5
VIDEO 6
MONITOR OUT
AUDIO OUT
CTRL S OUT
CTRL S IN
171868412
1-678-585-12
SONY

U BOARD LOCATOR LIST

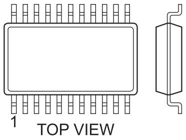
DIODE	
D2401	D-6
D2402	E-4
D2403	D-5
D2405	D-6
D2406	D-4
D2407	D-5
D2409	B-5
D2410	B-3
D2411	A-5
D2412	B-2
D2413	B-3
D2414	B-2
D2415	A-3
D2416	A-2
D2423	A-1
D2424	B-2
D2425	B-2
D2426	B-2
D2427	B-2
D2428	A-2
D2429	D-2
D2430	D-3
D2431	D-2
D2432	D-2
D2433	E-1
D2434	E-1

6-4. SEMICONDUCTORS



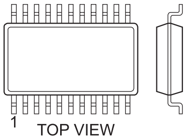
8pin

BR24C04F-WE2
BR24C08
NJM2901M-TE2
NJM2903M
NJM2904M
NJM4558E(TE2)
TC7WU04FU(TE12R)
TDA2822D



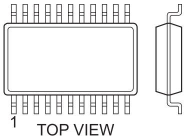
14pin

M52055FP
MC74HC4066F
TLC2932IPW
TLC2933IPWR-12



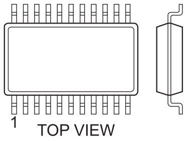
16pin

CXD2085M-T4
SN74LV4053ANSR



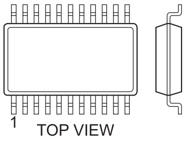
28pin

CXD2057M-T6
TEA6422DT



32pin

BH3868AFS-E2



50pin

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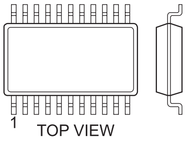

86pin

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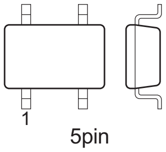

5pin

PST9120NL
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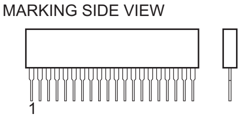
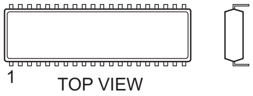
TC7SET08FU(TE85L)


MARKING SIDE VIEW
1

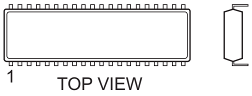
8pin

UPC1406HA



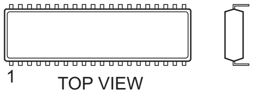
14pin

IR2112



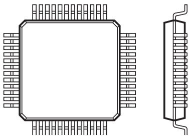
18pin

MCZ3001D



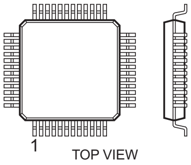
22pin

CXA2026AS



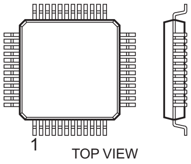
32pin

CXD2073Q-T4



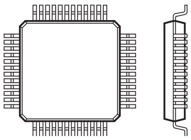
48pin

CXA2103Q
CXA2150Q
CXD2309Q



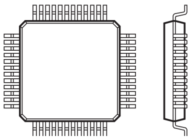
64pin

TLC5733AIPM



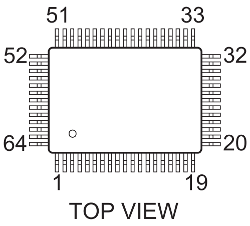
208pin

CXD2090Q



240pin

CXD9509AQ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33
52
32
64
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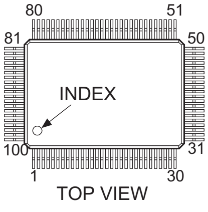
19
TOP VIEW

CXA2069Q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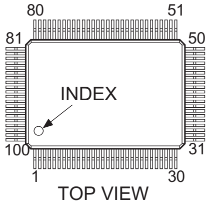
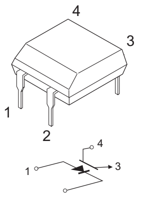
TOP VIEW

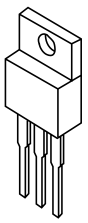
CXA2150Q


80
51
81
50
INDEX
100
31
1
30
TOP VIEW

MB94918-DX1MID
M306V2ME-102FP



PC123FV2



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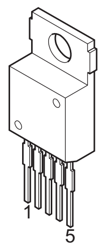

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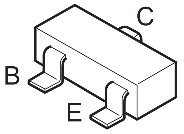

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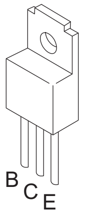
DTA143EK
DTA144EKA-T146
DTC114EK
DTC114TKA-T146
DTC143EKA-T146
DTC144EKA-T146
2SA1162-G
2SA1226
2SC1623-L5L6
2SC4081-R
2SD601A-Q
2SD601A-Q-TX
2SD601A-S



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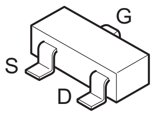
2SC5511



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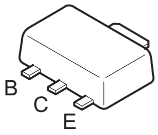
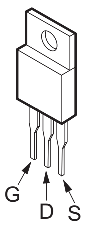


2SK2036(TE85L)



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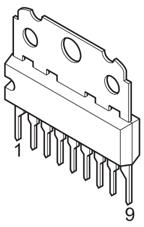
IRFI644
IMB12-140-F153A



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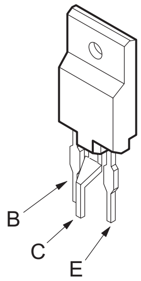

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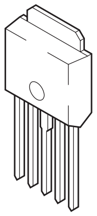

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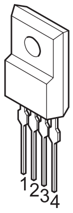

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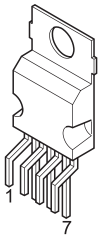
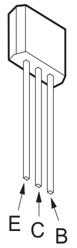
PQ05RF21
PQ09RF21
PQ12RF21
PQ30RF21



STV9379



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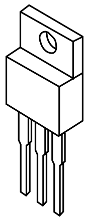

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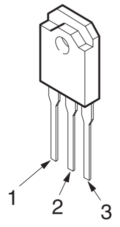

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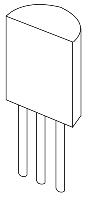

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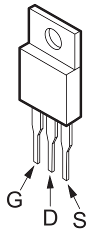

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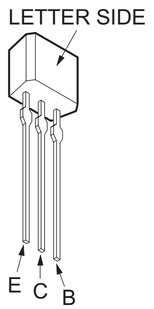
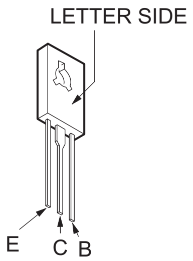
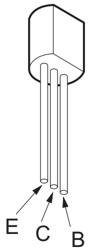

LETTER SIDE
E
C
B

2SA1175-HFE
2SC3311A-QRSTA


LETTER SIDE
E
C
B

2SC2688-LK
2SC3840(3)



2SA1208S-TP

NOTES:

SECTION 7
EXPLODED VIEWS

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The component parts of an assembly are indicated by the reference numbers in the remarks column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

Note:

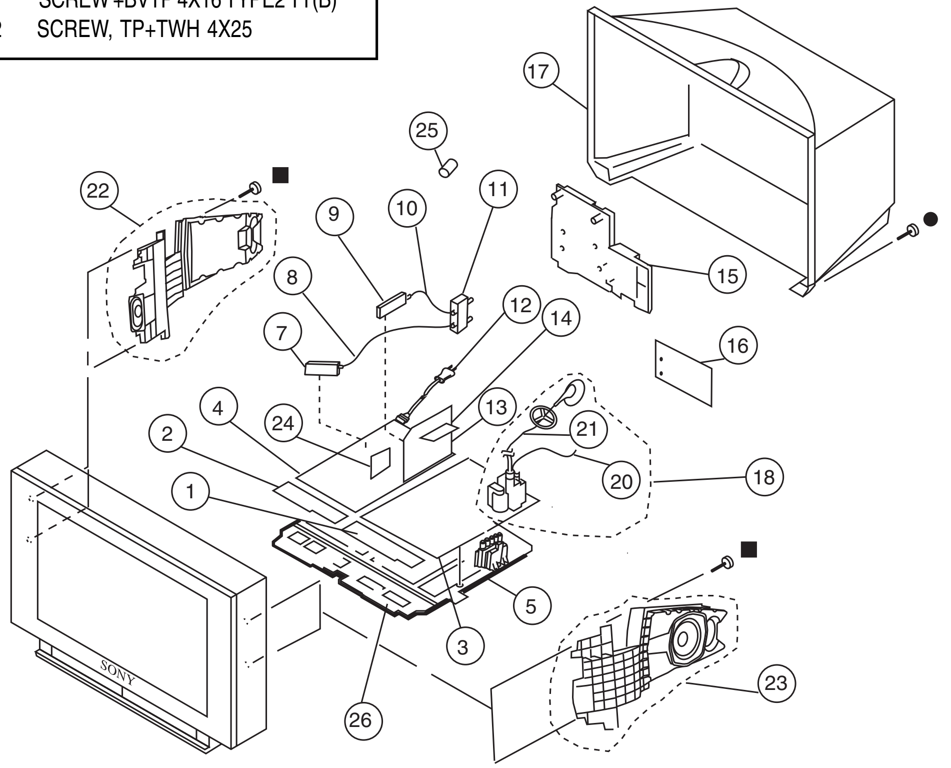
The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note:

Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

7-1. CHASSIS

●	7-685-663-79	SCREW +BVTP 4X16 TYPE2 TT(B)
■	4-064-929-02	SCREW, TP+TWH 4X25



REF.NO.	PART NO.	DESCRIPTION	REMARK
1	A-1372-834-A *	HA BOARD, MOUNTED	
2	A-1372-904-A *	HB (COM) MOUNTED PC BOARD	
3	A-1346-947-A *	D BOARD, COMPLETE (KV-32XBR400 only) The high-voltage leads associated with the FBT on this board are not included and must be ordered separately. (See 19-21)	
3	A-1346-948-A *	D BOARD, COMPLETE (KV-36XBR400/38DRC1/36XBR400H only) The high-voltage leads associated with the FBT on this board are not included and must be ordered separately. (See 19-21)	
3	A-1346-956-A *	D BOARD, COMPLETE (KV-38DRC1C only) The high-voltage leads associated with the FBT on this board are not included and must be ordered separately. (See 19-21)	
4	A-1299-256-A *	A BOARD, COMPLETE (KV-32XBR400/36XBR400/38DRC1/36XBR400H only)	
4	A-1299-283-A *	A BOARD, COMPLETE (KV-38DRC1C only)	
5	4-075-828-01 *	BRACKET, MAIN	
6	8-598-865-00 *	BLOCK ASSY, HI-VOL HVB-1040//X (KV-38DRC1C only) (1st 15,000 units only)	
6	8-598-865-01 *	BLOCK ASSY, HI-VOL HVB-1040//X (KV-32XBR400/36XBR400/38DRC1 only) (1st 15,000 units only)	
7	8-598-501-30 ⚠	TUNER (BTF-FA402)	
8	1-555-400-00	CABLE, PIN	
9	8-598-542-20 ⚠	TUNER (BTF-WA412)	
10	1-557-009-31	CABLE, P-P	
11	1-771-787-11	SWITCH RF ANTENNA	
12	1-769-796-61 ⚠	CORD, POWER (WITH CONNECTOR) (KV-38DRC1C only)	
12	1-790-316-21 ⚠	CORD, AC POWER (WITH CONNECTOR) KV-32XBR400/36XBR400/38DRC1/36XBR400H only)	
13	A-1136-147-A *	B BOARD, COMPLETE	
14	A-1136-117-A *	BC BOARD, COMPLETE	
15	4-075-829-01 *	BRACKET, U	
16	A-1373-817-A *	U (COM) MOUNTED PC	
17	4-075-821-01	COVER, REAR (KV-32XBR400 only)	
17	4-075-833-01	COVER, REAR (KV-36XBR400/38DRC1/38DRC1C/36XBR400H only)	

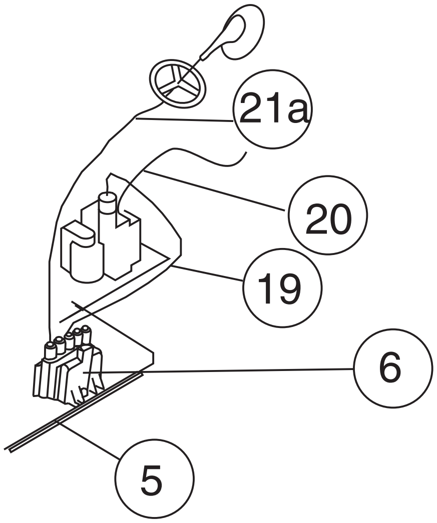
The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

REF.NO.	PART NO.	DESCRIPTION	REMARK
18	1-453-346-11⚠	FBT ASSY, NX-6000//J1J4	(20-21)
19	1-779-095-33⚠	LEAD ASSY, HIGH VOLTAGE	
20	1-900-805-19⚠	WIRE ASSY, FOCUS HV	
21	1-251-715-22⚠	CAP ASSY, HIGH-VOLTAGE	
21a	1-251-922-11⚠	CAP ASSY, HIGH-VOLTAGE	
22	1-529-811-11	SPEAKER BOX (L) TYPE 5X9CM (KV-32XBR400 only)	
22	1-529-812-11	SPEAKER BOX (L) TYPE 5X9CM (KV-36XBR400/38DRC1/38DRC1C/36XBR400H only)	
23	1-529-811-21	SPEAKER BOX (R) TYPE 5X9CM (KV-32XBR400 only)	
23	1-529-812-21	SPEAKER BOX (R) TYPE 5X9CM KV-36XBR400/38DRC1/38DRC1C/36XBR400H only)	
24	A-1391-048-A	S BOARD, MOUNTED	
25	1-500-386-11	FILTER, CLAMP (FERRITE CORE) KV-32XBR400 /36XBR400/38DRC1/36XBR400H only)	
26	4-075-830-01	BRACKET, H	

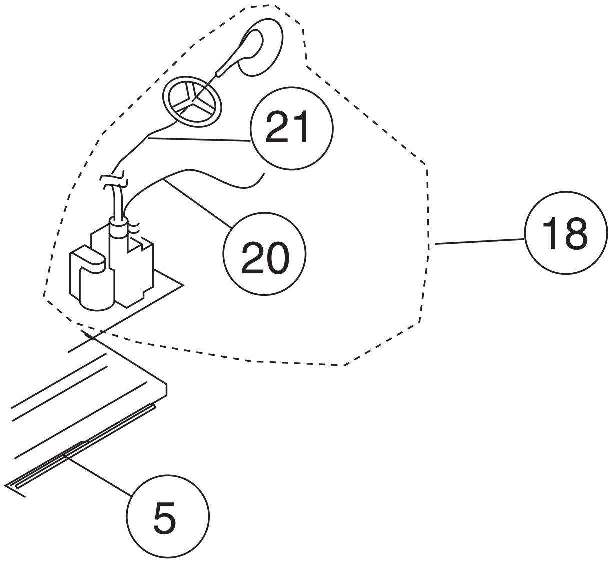
REF.NO.	PART NO.	DESCRIPTION	REMARK

EARLY 32XBR PRODUCTION CONFIGURATION



IF HV BLOCK ASSY OR FBT NEEDS REPLACEMENT, USE FBT ASSY# 1-453-346-11 (SHOWN TO THE RIGHT). NEW CONFIGURATION HAS HV BLOCK WITHIN FBT.

CURRENT CONFIGURATION

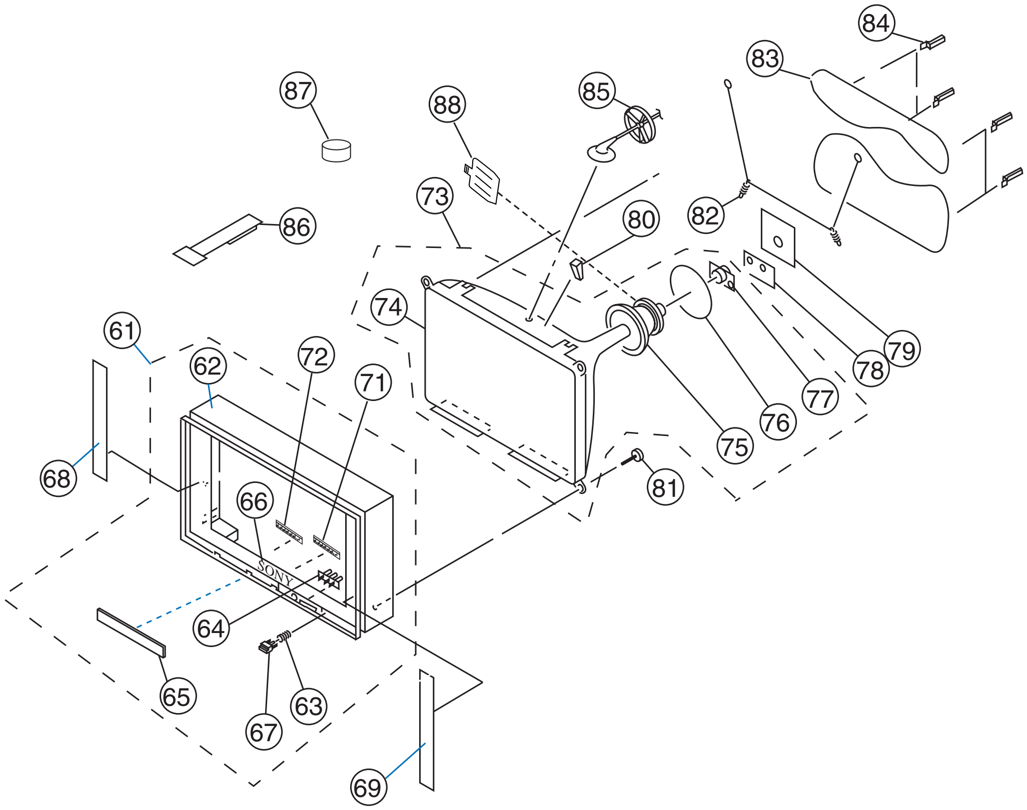


FBT ASSY. P/N 1-453-346-11 (NX-6000//J1J4)

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

7-2. PICTURE TUBE



REF.NO.	PART NO.	DESCRIPTION	REMARK
61	X-4037-672-2	BEZNET ASSY (KV-32XBR400 only)	(62-67)
61	X-4037-671-3	BEZNET ASSY (KV-36XBR400/38DRC1/38DRC1C/36XBR400H only)	(62-67)
62	4-075-820-01	CABINET (KV-32XBR400 only)	
62	4-075-832-01	CABINET (KV-36XBR400/38DRC1/38DRC1C/36XBR400H only)	
63	4-042-593-11 *	SPRING, COMPRESSION	
64	4-075-823-01	GUIDE, LED	
65	4-075-822-11	DOOR, PAINTED	
66	3-704-179-01	EMBLEM (NO.9), SONY	
67	4-075-824-02	BUTTON, POWER	
68	4-077-821-11	GRILL, SPEAKER (L) (KV-32XBR400 only)	
68	4-076-635-11	GRILL, SPEAKER (L) (KV-36XBR400/38DRC1/38DRC1C/36XBR400H only)	
69	4-077-822-11	GRILL, SPEAKER (R) (KV-32XBR400 only)	
69	4-076-636-11	GRILL, SPEAKER (R) (KV-36XBR400/38DRC1/38DRC1C/36XBR400H only)	
71	4-075-825-01	BUTTON, MULTI	
72	4-075-826-01	BUTTON, MENU	

REF.NO.	PART NO.	DESCRIPTION	REMARK
73	8-735-048-62⚠	ITC 38RSN-C1 (A1597344A) (KV-36XBR400 only)	(74-77)
73	8-735-081-62⚠	ITC 38RSN-C1M (A1597346A) (KV-38DRC1/36XBR400H only)	(74-77)
73	8-735-080-63⚠	ITC 38RSN-C1E (A15974345A) (KV-38DRC1 only)	(74-77)
74	8-735-047-05⚠	CRT 34RSN (A80LPD80X) (KV-32XBR400 only)	
75	8-451-512-21⚠	DY Y34RSC-M (KV-32XBR400 only)	
76	1-451-498-21	COIL, NA ROTATION (KV-32XBR400 only)	
77	8-453-009-21 *	NA325-M2	
78	A-1372-833-A	W MOUNTED PC BOARD	
79	A-1332-075-A	C MOUNTED PC BOARD	
80	4-053-005-01	SPACER, DY (KV-32XBR400 only)	
81	4-046-765-12	SCREW, TAPPING 7+CROWN WASHER	
82	4-036-329-01	SPRING (B), TENSION	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

REF.NO.	PART NO.	DESCRIPTION	REMARK
83	1-416-827-21 ⚠	COIL, DEGAUSSING (KV-32XBR400 only)	
83	1-416-828-41 ⚠	COIL, DEGAUSSING (KV-36XBR400/38DRC1/36XBR400H only)	
83	1-419-193-11 ⚠	COIL, DEGAUSSING (KV-38DRC1C only)	
84	4-065-895-04	HOLDER, DGC	
85	3-704-372-31	HOLDER, HV CABLE	
86	4-062-047-02	PIECE A(110), CONV CORRECT	
87	1-452-885-11	MAGNET, LANDING	
88	4-057-714-01	PIECE, TLH CONVERGENCE (KV-32XBR400 only)	

REF.NO.	PART NO.	DESCRIPTION	REMARK

NOTES:

SECTION 8
ELECTRICAL PARTS LIST

Note:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note:

Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by ⧓ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

- Items marked with a asterisk "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS
- All resistors are in ohms
- F : nonflammable

When indicating parts by reference number, please include the board name.

BC

REF.NO.	PART NO.	DESCRIPTION			REMARK
*	**A-1136-117-A**	**BC BOARD, COMPLETE**			
		CAPACITOR			
C3500	1-165-319-11	CERAMIC CHIP	0.1µF		50V
C3501	1-163-231-11	CERAMIC CHIP	15pF	5%	50V
C3502	1-165-319-11	CERAMIC CHIP	0.1µF		50V
C3504	1-163-102-00	CERAMIC CHIP	24pF	5%	50V
C3505	1-163-102-00	CERAMIC CHIP	24pF	5%	50V
C3506	1-165-319-11	CERAMIC CHIP	0.1µF		50V
C3507	1-165-319-11	CERAMIC CHIP	0.1µF		50V
C3509	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C3510	1-163-131-00	CERAMIC CHIP	390pF	5%	50V
C3511	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C3512	1-165-319-11	CERAMIC CHIP	0.1µF		50V
C3513	1-216-295-11	SHORT	0		
C3514	1-163-031-11	CERAMIC CHIP	0.01µF		50V
C3515	1-165-319-11	CERAMIC CHIP	0.1µF		50V
C3516	1-165-319-11	CERAMIC CHIP	0.1µF		50V
C3517	1-126-924-11	ELECT	330µF	20%	6.3V
C3518	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C3519	1-165-319-11	CERAMIC CHIP	0.1µF		50V
C3520	1-165-319-11	CERAMIC CHIP	0.1µF		50V
C3521	1-163-237-11	CERAMIC CHIP	27pF	5%	50V
C3522	1-104-664-11	ELECT	47µF	20%	16V
C3523	1-165-319-11	CERAMIC CHIP	0.1µF		50V
C3524	1-165-319-11	CERAMIC CHIP	0.1µF		50V
C3525	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C3526	1-165-319-11	CERAMIC CHIP	0.1µF		50V
C3527	1-165-319-11	CERAMIC CHIP	0.1µF		50V
C3528	1-165-319-11	CERAMIC CHIP	0.1µF		50V
C3529	1-165-319-11	CERAMIC CHIP	0.1µF		50V
C3530	1-104-664-11	ELECT	47µF	20%	16V
C3531	1-165-319-11	CERAMIC CHIP	0.1µF		50V
C3532	1-126-964-11	ELECT	10µF	20%	50V
C3533	1-163-133-00	CERAMIC CHIP	470pF	5%	50V
C3534	1-126-960-11	ELECT	1µF	20%	50V
C3535	1-163-231-11	CERAMIC CHIP	15pF	5%	50V
C3536	1-126-960-11	ELECT	1µF	20%	50V
C3537	1-126-964-11	ELECT	10µF	20%	50V
C3538	1-163-231-11	CERAMIC CHIP	15pF	5%	50V
C3539	1-163-231-11	CERAMIC CHIP	15pF	5%	50V
C3541	1-163-106-00	CERAMIC CHIP	36pF	5%	50V
C3542	1-126-964-11	ELECT	10µF	20%	50V
C3543	1-164-505-11	CERAMIC CHIP	2.2µF		16V
C3546	1-163-231-11	CERAMIC CHIP	15pF	5%	50V
C3547	1-126-934-11	ELECT	220µF	20%	10V
C3548	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C3549	1-104-664-11	ELECT	47µF	20%	16V
C3550	1-163-031-11	CERAMIC CHIP	0.01µF		50V
C3551	1-104-664-11	ELECT	47µF	20%	16V
C3552	1-163-031-11	CERAMIC CHIP	0.01µF		50V
C3553	1-163-031-11	CERAMIC CHIP	0.01µF		50V
C3554	1-104-664-11	ELECT	47µF	20%	16V
C3555	1-126-934-11	ELECT	220µF	20%	10V
C3556	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C3557	1-163-031-11	CERAMIC CHIP	0.01µF		50V
C3558	1-104-664-11	ELECT	47µF	20%	16V
C3559	1-163-031-11	CERAMIC CHIP	0.01µF		50V
C3560	1-104-664-11	ELECT	47µF	20%	16V
C3561	1-163-031-11	CERAMIC CHIP	0.01µF		50V
C3562	1-163-031-11	CERAMIC CHIP	0.01µF		50V
C3563	1-104-664-11	ELECT	47µF	20%	16V
C3564	1-104-664-11	ELECT	47µF	20%	16V
C3565	1-163-031-11	CERAMIC CHIP	0.01µF		50V
C3566	1-163-031-11	CERAMIC CHIP	0.01µF		50V
		CONNECTOR			
*CN3500	1-691-632-21	CONNECTOR, BOARD TO BOARD 15P			

BC

FERRITE BEAD

REF.NO.	PART NO.	DESCRIPTION	REMARK
FB3500	1-414-234-22	FERRITE 0μH	
FB3501	1-414-234-22	FERRITE 0μH	
FB3502	1-414-234-22	FERRITE 0μH	
FB3503	1-414-234-22	FERRITE 0μH	
FB3504	1-414-234-22	FERRITE 0μH	
FB3505	1-414-234-22	FERRITE 0μH	
FB3506	1-414-234-22	FERRITE 0μH	
FB3507	1-414-234-22	FERRITE 0μH	
FB3508	1-414-234-22	FERRITE 0μH	
FB3509	1-414-234-22	FERRITE 0μH	

FILTER

REF.NO.	PART NO.	DESCRIPTION	REMARK
FL3500	1-239-848-21	FILTER, LOW PASS	
FL3501	1-239-848-21	FILTER, LOW PASS	
FL3502	1-239-848-21	FILTER, LOW PASS	
FL3503	1-239-848-21	FILTER, LOW PASS	
FL3504	1-233-512-21	FERRITE 37μH	
FL3505	1-233-512-21	FERRITE 37μH	
FL3506	1-233-512-21	FERRITE 37μH	

IC

REF.NO.	PART NO.	DESCRIPTION	REMARK
IC3500	8-759-568-27	IC UPD424210LE-60-E2	
IC3501	8-759-594-44	IC UPD64082GF-3BA	
IC3502	8-759-583-47	IC UPC2933T-E1	

COIL

REF.NO.	PART NO.	DESCRIPTION	REMARK
L3500	1-414-265-21	INDUCTOR 4.7μH	
L3501	1-412-058-11	INDUCTOR 10μH	
L3502	1-412-058-11	INDUCTOR 10μH	
L3503	1-412-058-11	INDUCTOR 10μH	
L3504	1-412-058-11	INDUCTOR 10μH	
L3505	1-412-058-11	INDUCTOR 10μH	

TRANSISTOR

REF.NO.	PART NO.	DESCRIPTION	REMARK
Q3500	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q3501	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q3502	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q3503	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q3504	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q3505	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q3506	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q3508	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q3509	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q3510	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q3511	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q3512	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q3513	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q3514	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q3515	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q3516	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q3517	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	

RESISTOR

REF.NO.	PART NO.	DESCRIPTION	REMARK
R3500	1-216-296-91	SHORT 0	
R3501	1-216-296-91	SHORT 0	
R3502	1-216-296-91	SHORT 0	
R3503	1-216-017-91	RES-CHIP 47 5% 1/10W	
R3504	1-216-295-11	SHORT 0	
R3505	1-216-295-11	SHORT 0	
R3506	1-216-295-11	SHORT 0	
R3507	1-216-295-11	SHORT 0	
R3508	1-216-295-11	SHORT 0	
R3509	1-216-049-11	RES-CHIP 1K 5% 1/10W	
R3510	1-216-041-00	RES-CHIP 470 5% 1/10W	
R3511	1-216-041-00	RES-CHIP 470 5% 1/10W	
R3512	1-216-295-11	SHORT 0	
R3514	1-216-025-11	RES-CHIP 100 5% 1/10W	
R3515	1-216-055-00	RES-CHIP 1.8K 5% 1/10W	
R3516	1-216-055-00	RES-CHIP 1.8K 5% 1/10W	
R3517	1-216-025-11	RES-CHIP 100 5% 1/10W	
R3518	1-216-025-11	RES-CHIP 100 5% 1/10W	
R3519	1-216-295-11	SHORT 0	
R3520	1-216-065-91	RES-CHIP 4.7K 5% 1/10W	
R3521	1-216-041-00	RES-CHIP 470 5% 1/10W	
R3522	1-216-041-00	RES-CHIP 470 5% 1/10W	
R3523	1-216-049-11	RES-CHIP 1K 5% 1/10W	
R3524	1-216-089-11	RES-CHIP 47K 5% 1/10W	
R3525	1-216-057-00	RES-CHIP 2.2K 5% 1/10W	
R3526	1-216-105-91	RES-CHIP 220K 5% 1/10W	
R3527	1-216-033-00	RES-CHIP 220 5% 1/10W	
R3528	1-208-776-11	METAL CHIP 560 0.50% 1/10W	
R3529	1-208-772-11	METAL CHIP 390 0.50% 1/10W	
R3530	1-216-067-00	RES-CHIP 5.6K 5% 1/10W	
R3531	1-216-049-11	RES-CHIP 1K 5% 1/10W	
R3532	1-216-025-11	RES-CHIP 100 5% 1/10W	
R3534	1-216-049-11	RES-CHIP 1K 5% 1/10W	
R3535	1-216-025-11	RES-CHIP 100 5% 1/10W	
R3538	1-216-049-11	RES-CHIP 1K 5% 1/10W	
R3539	1-216-043-91	RES-CHIP 560 5% 1/10W	
R3540	1-216-049-11	RES-CHIP 1K 5% 1/10W	
R3541	1-216-067-00	RES-CHIP 5.6K 5% 1/10W	
R3542	1-216-043-91	RES-CHIP 560 5% 1/10W	
R3543	1-216-049-11	RES-CHIP 1K 5% 1/10W	

REF.NO.	PART NO.	DESCRIPTION			REMARK
R3544	1-216-049-11	RES-CHIP	1K	5%	1/10W
R3545	1-216-043-91	RES-CHIP	560	5%	1/10W
R3547	1-216-067-00	RES-CHIP	5.6K	5%	1/10W
R3548	1-216-295-11	SHORT	0		
R3549	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R3550	1-208-780-11	METAL CHIP	820	0.50%	1/10W
R3551	1-216-043-91	RES-CHIP	560	5%	1/10W
R3552	1-216-031-00	RES-CHIP	180	5%	1/10W
R3553	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R3554	1-216-047-91	RES-CHIP	820	5%	1/10W
R3555	1-216-075-00	RES-CHIP	12K	5%	1/10W
R3556	1-216-085-00	RES-CHIP	33K	5%	1/10W
R3557	1-216-049-11	RES-CHIP	1K	5%	1/10W
R3558	1-216-017-91	RES-CHIP	47	5%	1/10W
R3559	1-216-295-11	SHORT	0		
R3560	1-216-049-11	RES-CHIP	1K	5%	1/10W
R3561	1-216-043-91	RES-CHIP	560	5%	1/10W
R3563	1-216-295-11	SHORT	0		
R3564	1-216-295-11	SHORT	0		
R3565	1-216-067-00	RES-CHIP	5.6K	5%	1/10W
R3566	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R3567	1-216-043-91	RES-CHIP	560	5%	1/10W
R3568	1-216-047-91	RES-CHIP	820	5%	1/10W
R3569	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R3570	1-216-085-00	RES-CHIP	33K	5%	1/10W
R3571	1-216-075-00	RES-CHIP	12K	5%	1/10W
R3572	1-216-049-11	RES-CHIP	1K	5%	1/10W
R3573	1-216-017-91	RES-CHIP	47	5%	1/10W
R3588	1-216-043-91	RES-CHIP	560	5%	1/10W

CRYSTAL

REF.NO.	PART NO.	DESCRIPTION
X3500	1-767-606-11	VIBRATOR, CRYSTAL

B

*	**A-1136-147-A**	**B BOARD, COMPLETE**

CAPACITOR

REF.NO.	PART NO.	DESCRIPTION			REMARK
C3001	1-128-453-21	ELECT	47µF	20%	6.3V
C3002	1-128-453-21	ELECT	47µF	20%	6.3V
C3003	1-128-453-21	ELECT	47µF	20%	6.3V
C3004	1-126-206-11	ELECT	100µF	20%	6.3V
C3005	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3006	1-124-779-00	ELECT	10µF	20%	16V
C3007	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C3008	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C3009	1-164-227-11	CERAMIC CHIP	0.022µF	10%	25V
C3010	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3011	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C3012	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3013	1-104-601-11	ELECT	10µF	20%	10V
C3014	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C3015	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3016	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C3017	1-124-779-00	ELECT	10µF	20%	16V
C3018	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3019	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3020	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
C3021	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3022	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3023	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C3024	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C3025	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C3026	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C3027	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C3028	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3030	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3031	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3032	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3033	1-126-206-11	ELECT	100µF	20%	6.3V
C3034	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3035	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3036	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3037	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3039	1-124-779-00	ELECT	10µF	20%	16V
C3040	1-124-779-00	ELECT	10µF	20%	16V
C3041	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
C3043	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3044	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3045	1-124-779-00	ELECT	10µF	20%	16V
C3046	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C3047	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C3048	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C3049	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C3050	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C3051	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C3054	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3055	1-124-779-00	ELECT	10µF	20%	16V
C3056	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3057	1-126-603-11	ELECT	4.7µF	20%	35V
C3059	1-126-206-11	ELECT	100µF	20%	6.3V
C3060	1-126-204-11	ELECT	47µF	20%	16V
C3061	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V

REF.NO.	PART NO.	DESCRIPTION			REMARK
C3062	1-126-204-11	ELECT	47μF	20%	16V
C3063	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3064	1-117-681-11	ELECT	100μF	20%	16V
C3066	1-126-204-11	ELECT	47μF	20%	16V
C3067	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C3068	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C3069	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C3070	1-126-204-11	ELECT	47μF	20%	16V
C3071	1-162-916-11	CERAMIC CHIP	12pF	5%	50V
C3072	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V
C3073	1-126-204-11	ELECT	47μF	20%	16V
C3074	1-126-204-11	ELECT	47μF	20%	16V
C3075	1-164-315-11	CERAMIC CHIP	470pF	5%	50V
C3076	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V
C3078	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C3079	1-125-838-11	CERAMIC CHIP	2.2μF	10%	6.3V
C3080	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3081	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3082	1-126-204-11	ELECT	47μF	20%	16V
C3083	1-107-823-11	CERAMIC CHIP	0.47μF	10%	16V
C3085	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V
C3086	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3087	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V
C3088	1-124-779-00	ELECT	10μF	20%	16V
C3089	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3090	1-126-204-11	ELECT	47μF	20%	16V
C3091	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3092	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3093	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3094	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3096	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3097	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3098	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3099	1-162-919-11	CERAMIC CHIP	22pF	5%	50V
C3113	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3114	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C3115	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C3116	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C3117	1-126-603-11	ELECT	4.7μF	20%	35V
C3120	1-126-206-11	ELECT	100μF	20%	6.3V
C3127	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C3128	1-162-916-11	CERAMIC CHIP	12pF	5%	50V
C3129	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V
C3130	1-164-315-11	CERAMIC CHIP	470pF	5%	50V
C3131	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V
C3132	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C3133	1-125-838-11	CERAMIC CHIP	2.2μF	10%	6.3V
C3134	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3135	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3136	1-107-823-11	CERAMIC CHIP	0.47μF	10%	16V
C3137	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V
C3138	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3139	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V
C3140	1-124-779-00	ELECT	10μF	20%	16V
C3141	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C3142	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3172	1-124-779-00	ELECT	10μF	20%	16V
C3173	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3204	1-126-193-11	ELECT	1μF	20%	50V
C3205	1-117-681-11	ELECT	100μF	20%	16V
C3206	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V
C3208	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V
C3209	1-124-779-00	ELECT	10μF	20%	16V
C3210	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V
C3211	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V
C3212	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3213	1-117-681-11	ELECT	100μF	20%	16V
C3215	1-126-401-21	ELECT	1μF	20%	50V
C3216	1-126-193-11	ELECT	1μF	20%	50V
C3218	1-126-193-11	ELECT	1μF	20%	50V
C3219	1-126-193-11	ELECT	1μF	20%	50V
C3220	1-128-993-21	ELECT	22μF	20%	10V
C3221	1-117-681-11	ELECT	100μF	20%	16V
C3222	1-124-779-00	ELECT	10μF	20%	16V
C3223	1-124-779-00	ELECT	10μF	20%	16V
C3224	1-124-779-00	ELECT	10μF	20%	16V
C3225	1-124-779-00	ELECT	10μF	20%	16V
C3226	1-124-779-00	ELECT	10μF	20%	16V
C3227	1-124-779-00	ELECT	10μF	20%	16V
C3229	1-117-681-11	ELECT	100μF	20%	16V
C3235	1-124-779-00	ELECT	10μF	20%	16V
C3236	1-124-779-00	ELECT	10μF	20%	16V
C3237	1-117-681-11	ELECT	100μF	20%	16V
C3239	1-124-779-00	ELECT	10μF	20%	16V
C3240	1-164-230-11	CERAMIC CHIP	220pF	5%	50V
C3241	1-164-361-11	CERAMIC CHIP	0.047μF		25V
C3242	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3243	1-126-193-11	ELECT	1μF	20%	50V
C3245	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3246	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3247	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3248	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3249	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3250	1-216-295-11	SHORT	0		
C3251	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3252	1-216-295-11	SHORT	0		
C3253	1-127-573-11	CERAMIC CHIP	1μF	10%	16V
C3254	1-127-573-11	CERAMIC CHIP	1μF	10%	16V
C3255	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3301	1-164-156-11	CERAMIC CHIP	0.1μF		25V

REF.NO.	PART NO.	DESCRIPTION			REMARK
C3302	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3303	1-126-206-11	ELECT	100μF	20%	6.3V
C3304	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3305	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3306	1-126-204-11	ELECT	47μF	20%	16V
C3307	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3308	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3309	1-124-779-00	ELECT	10μF	20%	16V
C3310	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C3311	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C3312	1-126-206-11	ELECT	100μF	20%	6.3V
C3313	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3314	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3315	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3316	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3317	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3318	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3319	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3320	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3321	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3322	1-126-204-11	ELECT	47μF	20%	16V
C3323	1-124-779-00	ELECT	10μF	20%	16V
C3324	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3325	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3326	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3327	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3328	1-124-779-00	ELECT	10μF	20%	16V
C3331	1-126-204-11	ELECT	47μF	20%	16V
C3332	1-124-779-00	ELECT	10μF	20%	16V
C3333	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3335	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3336	1-124-779-00	ELECT	10μF	20%	16V
C3338	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3339	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3340	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3341	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3343	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3344	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3345	1-126-204-11	ELECT	47μF	20%	16V
C3346	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3347	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C3348	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3349	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3350	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3351	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3352	1-124-779-00	ELECT	10μF	20%	16V
C3353	1-126-204-11	ELECT	47μF	20%	16V
C3354	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3355	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3356	1-126-204-11	ELECT	47μF	20%	16V

REF.NO.	PART NO.	DESCRIPTION			REMARK
C3357	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3358	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3359	1-126-204-11	ELECT	47μF	20%	16V
C3360	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3361	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3362	1-127-760-11	CERAMIC CHIP	4.7μF	10%	6.3V
C3363	1-126-204-11	ELECT	47μF	20%	16V
C3364	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3365	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3366	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3367	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3368	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3369	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3370	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3371	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3372	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3373	1-162-923-11	CERAMIC CHIP	47pF	5%	50V
C3374	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3375	1-127-760-11	CERAMIC CHIP	4.7μF	10%	6.3V
C3376	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3377	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3378	1-126-204-11	ELECT	47μF	20%	16V
C3379	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3401	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3402	1-124-779-00	ELECT	10μF	20%	16V
C3403	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3404	1-124-779-00	ELECT	10μF	20%	16V
C3405	1-126-206-11	ELECT	100μF	20%	6.3V
C3406	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C3407	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C3408	1-126-206-11	ELECT	100μF	20%	6.3V
C3409	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3410	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3411	1-163-038-11	CERAMIC CHIP	0.1μF		25V
C3412	1-163-038-11	CERAMIC CHIP	0.1μF		25V
C3413	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3414	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C3415	1-124-779-00	ELECT	10μF	20%	16V
C3416	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3417	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3418	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C3419	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3420	1-124-779-00	ELECT	10μF	20%	16V
C3421	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3422	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3423	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3424	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3425	1-107-823-11	CERAMIC CHIP	0.47μF	10%	16V
C3426	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3428	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V

REF.NO.	PART NO.	DESCRIPTION			REMARK
C3429	1-124-779-00	ELECT	10µF	20%	16V
C3430	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3431	1-126-204-11	ELECT	47µF	20%	16V
C3432	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3433	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3434	1-126-204-11	ELECT	47µF	20%	16V
C3435	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3436	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C3437	1-126-204-11	ELECT	47µF	20%	16V
C3438	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3439	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3440	1-162-916-11	CERAMIC CHIP	12pF	5%	50V
C3441	1-162-916-11	CERAMIC CHIP	12pF	5%	50V
C3442	1-124-779-00	ELECT	10µF	20%	16V
C3443	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3444	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3445	1-126-204-11	ELECT	47µF	20%	16V
C3446	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C3447	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3448	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3449	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3450	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3451	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3452	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3453	1-124-779-00	ELECT	10µF	20%	16V
C3454	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3455	1-124-779-00	ELECT	10µF	20%	16V
C3456	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3457	1-124-779-00	ELECT	10µF	20%	16V
C3458	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3460	1-162-923-11	CERAMIC CHIP	47pF	5%	50V
C3462	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3463	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3464	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3465	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3466	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3467	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3468	1-126-206-11	ELECT	100µF	20%	6.3V
C3469	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3470	1-126-206-11	ELECT	100µF	20%	6.3V
C3473	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3474	1-124-779-00	ELECT	10µF	20%	16V
C3475	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3476	1-124-779-00	ELECT	10µF	20%	16V
C3477	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3478	1-126-204-11	ELECT	47µF	20%	16V
C3479	1-124-779-00	ELECT	10µF	20%	16V
C3480	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3481	1-117-681-11	ELECT	100µF	20%	16V
C3482	1-117-681-11	ELECT	100µF	20%	16V
C3483	1-117-681-11	ELECT	100µF	20%	16V
C3484	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
C3485	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3486	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3487	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3488	1-124-779-00	ELECT	10µF	20%	16V
C3489	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3490	1-124-779-00	ELECT	10µF	20%	16V
C3491	1-126-204-11	ELECT	47µF	20%	16V
C3492	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3493	1-126-204-11	ELECT	47µF	20%	16V
C3494	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3495	1-124-779-00	ELECT	10µF	20%	16V
C3496	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3604	1-124-779-00	ELECT	10µF	20%	16V
C3605	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3606	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C3607	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3608	1-163-275-11	CERAMIC CHIP	0.001µF	5%	50V
C3609	1-162-968-11	CERAMIC CHIP	.0047µF	10%	50V
C3610	1-126-204-11	ELECT	47µF	20%	16V
C3611	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3612	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C3613	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C3618	1-124-779-00	ELECT	10µF	20%	16V
C3619	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3623	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C3624	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3625	1-163-275-11	CERAMIC CHIP	0.001µF	5%	50V
C3626	1-162-968-11	CERAMIC CHIP	.0047µF	10%	50V
C3627	1-126-204-11	ELECT	47µF	20%	16V
C3628	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3629	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C3630	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C3635	1-126-204-11	ELECT	47µF	20%	16V
C3636	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
C3637	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3638	1-124-779-00	ELECT	10µF	20%	16V
C3639	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3640	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
C3641	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3642	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3643	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3644	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3652	1-162-974-11	CERAMIC CHIP	0.01µF		50V
C3653	1-164-230-11	CERAMIC CHIP	220pF	5%	50V
C3654	1-164-230-11	CERAMIC CHIP	220pF	5%	50V
C3655	1-164-230-11	CERAMIC CHIP	220pF	5%	50V
C3656	1-164-230-11	CERAMIC CHIP	220pF	5%	50V
C3657	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V

REF.NO.	PART NO.	DESCRIPTION	REMARK
C3658	1-162-964-11	CERAMIC CHIP 0.001µF 10% 50V	
C3659	1-126-204-11	ELECT 47µF 20% 16V	
C3660	1-126-204-11	ELECT 47µF 20% 16V	
	CONNECTOR		
*CN3201	1-691-616-21	CONNECTOR, BOARD TO BOARD 15P	
CN3202	1-573-299-21	CONNECTOR, BOARD TO BOARD 10P	
*CN3203	1-785-303-11	CONNECTOR, DIN (PLUG) 64P	
*CN3204	1-564-526-11	PLUG, CONNECTOR 11P	
*CN3205	1-785-304-11	CONNECTOR, DIN (RECEPTACLE) 64	
	DIODE		
D3001	8-719-978-33	DIODE UDZS-TE17-6.8B	
D3002	8-719-978-33	DIODE UDZS-TE17-6.8B	
D3003	8-719-978-33	DIODE UDZS-TE17-6.8B	
D3004	8-719-978-33	DIODE UDZS-TE17-6.8B	
D3005	8-719-978-33	DIODE UDZS-TE17-6.8B	
D3006	8-719-978-33	DIODE UDZS-TE17-6.8B	
D3007	8-719-978-33	DIODE UDZS-TE17-6.8B	
D3089	8-719-800-76	DIODE MA153-TX	
D3090	8-719-800-76	DIODE MA153-TX	
D3201	8-719-977-28	DIODE UDZS-TE17-10B	
D3202	8-719-977-28	DIODE UDZS-TE17-10B	
D3204	8-719-977-28	DIODE UDZS-TE17-10B	
D3205	8-719-977-28	DIODE UDZS-TE17-10B	
D3206	8-719-977-28	DIODE UDZS-TE17-10B	
D3209	8-719-914-44	DIODE DAP202K-T-146	
D3210	8-719-041-97	DIODE MA113-(TX)	
D3211	8-719-073-01	DIODE MA111-TX	
D3212	8-719-977-28	DIODE UDZS-TE17-10B	
D3213	8-719-977-28	DIODE UDZS-TE17-10B	
D3214	8-719-977-28	DIODE UDZS-TE17-10B	
D3215	8-719-977-28	DIODE UDZS-TE17-10B	
D3216	8-719-977-28	DIODE UDZS-TE17-10B	
D3217	8-719-977-28	DIODE UDZS-TE17-10B	
D3301	8-719-422-12	DIODE UDZ-TE-17-3.9B	
D3401	8-719-914-43	DIODE DAN202K-T-146	
D3402	8-719-914-44	DIODE DAP202K-T-146	
D3403	8-719-978-33	DIODE UDZS-TE17-6.8B	
	FERRITE BEAD		
FB3201	1-414-234-22	FERRITE 0µH	
FB3202	1-414-234-22	FERRITE 0µH	
FB3203	1-216-295-11	SHORT 0	
FB3204	1-414-234-22	FERRITE 0µH	
FB3205	1-414-234-22	FERRITE 0µH	

REF.NO.	PART NO.	DESCRIPTION	REMARK
FB3206	1-414-234-22	FERRITE 0µH	
FB3401	1-414-235-22	FERRITE 0µH	
FB3402	1-414-235-22	FERRITE 0µH	
FB3601	1-414-235-22	FERRITE 0µH	
	FILTER		
FL3001	1-239-848-11	FILTER, LOW PASS	
FL3002	1-239-848-11	FILTER, LOW PASS	
FL3003	1-781-924-11	FILTER, LOW PASS (SMD)	
FL3004	1-239-848-11	FILTER, LOW PASS	
FL3401	1-781-923-11	FILTER, LOW PASS (SMD)	
	IC		
IC3001	8-752-093-84	IC CXA2151Q	
IC3002	8-759-595-97	IC SN74LV4053ANSR	
IC3003	8-752-394-69	IC CXD2073Q-T4	
IC3004	8-759-595-97	IC SN74LV4053ANSR	
IC3048	8-752-089-50	IC CXA2103Q	
IC3089	8-759-575-71	IC M24C04-MN6T	
IC3090	8-759-691-88	IC MB94918RpF-G-130-BND	
IC3091	8-759-349-11	IC PST9145NL	
IC3110	8-752-089-50	IC CXA2103Q	
IC3201	8-752-080-04	IC CXA2069Q	
IC3202	8-759-351-01	IC TEA6422DT	
IC3203	8-759-331-71	IC NJM4558E(TE2)	
IC3301	8-759-676-70	IC MSM56V16160F-10TS-K	
IC3302	8-749-015-18	IC PQ07VZ012P	
IC3303	8-752-398-47	IC CXD2090Q	
IC3304	8-759-447-90	IC TLC5733AIPM	
IC3305	8-759-669-75	IC TLC2932IPWR	
IC3306	8-759-669-78	IC TLC2933IPWR-12	
IC3401	8-749-015-18	IC PQ07VZ012P	
IC3402	8-759-677-39	IC MB81F643242B-D	
IC3403	8-759-460-29	IC PST9120NL	
IC3404	8-759-669-75	IC TLC2932IPWR	
IC3405	8-759-485-79	IC TC7SET08FU(TE85R)	
IC3406	8-759-485-79	IC TC7SET08FU(TE85R)	
IC3407	8-759-485-79	IC TC7SET08FU(TE85R)	
IC3408	8-759-672-57	IC CXD9509AQ	
IC3409	8-749-015-18	IC PQ07VZ012P	
IC3410	8-752-367-59	IC CXD2309Q	
IC3411	8-759-082-57	IC TC7W04FU(TE12R)	
IC3412	8-759-082-58	IC TC7W08FU(TE12R)	
IC3413	8-759-595-97	IC SN74LV4053ANSR	
IC3414	8-759-548-56	IC M52055FP	
IC3601	8-752-916-40	IC CXP85840A-039Q	
IC3602	8-752-916-40	IC CXP85840A-039Q	
IC3603	8-752-395-13	IC CXD2085M-T4	
IC3604	8-759-700-07	IC NJM2903M-TE2	

COIL

REF.NO.	PART NO.	DESCRIPTION	REMARK
L3001	1-216-295-11	SHORT 0	
L3002	1-469-555-21	INDUCTOR 10µH	
L3003	1-469-555-21	INDUCTOR 10µH	
L3004	1-469-555-21	INDUCTOR 10µH	
L3005	1-469-555-21	INDUCTOR 10µH	
L3049	1-469-555-21	INDUCTOR 10µH	
L3050	1-469-555-21	INDUCTOR 10µH	
L3051	1-469-555-21	INDUCTOR 10µH	
L3089	1-414-233-22	FERRITE 0µH	
L3112	1-469-555-21	INDUCTOR 10µH	
L3113	1-469-555-21	INDUCTOR 10µH	
L3301	1-412-058-11	INDUCTOR 10µH	
L3302	1-469-555-21	INDUCTOR 10µH	
L3303	1-412-052-21	INDUCTOR 1µH	
L3304	1-469-555-21	INDUCTOR 10µH	
L3305	1-469-555-21	INDUCTOR 10µH	
L3306	1-469-561-21	INDUCTOR 100µH	
L3307	1-469-555-21	INDUCTOR 10µH	
L3308	1-469-561-21	INDUCTOR 100µH	
L3309	1-469-561-21	INDUCTOR 100µH	
L3310	1-469-561-21	INDUCTOR 100µH	
L3311	1-469-561-21	INDUCTOR 100µH	
L3312	1-469-555-21	INDUCTOR 10µH	
L3401	1-412-052-21	INDUCTOR 1µH	
L3402	1-412-052-21	INDUCTOR 1µH	
L3403	1-469-561-21	INDUCTOR 100µH	
L3404	1-469-561-21	INDUCTOR 100µH	
L3405	1-469-555-21	INDUCTOR 10µH	
L3406	1-469-555-21	INDUCTOR 10µH	
L3407	1-469-555-21	INDUCTOR 10µH	
L3408	1-469-555-21	INDUCTOR 10µH	
L3409	1-469-555-21	INDUCTOR 10µH	
L3410	1-412-052-21	INDUCTOR 1µH	
L3411	1-412-058-11	INDUCTOR 10µH	
L3412	1-469-555-21	INDUCTOR 10µH	
L3413	1-469-555-21	INDUCTOR 10µH	
L3414	1-469-555-21	INDUCTOR 10µH	
L3416	1-469-555-21	INDUCTOR 10µH	
L3601	1-469-555-21	INDUCTOR 10µH	
L3602	1-412-951-11	INDUCTOR 10µH	
L3603	1-469-555-21	INDUCTOR 10µH	
L3604	1-412-951-11	INDUCTOR 10µH	
L3605	1-469-555-21	INDUCTOR 10µH	
L3606	1-469-555-21	INDUCTOR 10µH	
L3607	1-469-555-21	INDUCTOR 10µH	
L3608	1-414-754-11	INDUCTOR 10µH	
L3609	1-414-754-11	INDUCTOR 10µH	

TRANSISTOR

REF.NO.	PART NO.	DESCRIPTION	REMARK
Q3001	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q3002	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q3003	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q3005	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q3006	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q3007	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q3008	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q3009	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q3010	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q3011	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q3014	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q3015	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q3016	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q3017	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q3018	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q3021	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q3022	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q3023	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q3025	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q3026	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q3027	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q3035	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q3036	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q3037	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q3038	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q3039	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q3040	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q3049	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q3051	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q3053	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q3054	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q3056	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q3058	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q3089	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q3090	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q3091	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q3101	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q3102	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q3103	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q3104	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q3110	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q3111	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q3112	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q3201	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q3202	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q3203	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q3204	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	

REF.NO.	PART NO.	DESCRIPTION	REMARK
Q3205	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q3206	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q3207	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q3208	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q3209	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q3210	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q3211	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q3213	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q3214	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q3215	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q3216	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q3217	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q3301	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q3302	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q3303	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q3304	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q3305	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q3401	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q3402	8-729-028-28	TRANSISTOR 2SK2036(TE85L)	
Q3403	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q3404	8-729-028-28	TRANSISTOR 2SK2036(TE85L)	
Q3405	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q3406	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q3407	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q3408	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q3409	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q3410	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q3411	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q3412	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q3413	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q3414	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q3415	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q3603	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q3604	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q3605	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q3606	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q3609	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q3610	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q3611	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q3612	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q3613	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q3617	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q3618	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q3619	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q3620	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	

RESISTOR

REF.NO.	PART NO.	DESCRIPTION				REMARK
R3001	1-216-805-11	RES-CHIP	47	5%	1/16W	
R3002	1-216-805-11	RES-CHIP	47	5%	1/16W	
R3003	1-216-842-11	RES-CHIP	56K	5%	1/16W	
R3004	1-216-818-11	RES-CHIP	560	5%	1/16W	
R3005	1-216-821-11	RES-CHIP	1K	5%	1/16W	
R3006	1-216-817-11	RES-CHIP	470	5%	1/16W	
R3007	1-218-686-11	METAL CHIP	560	0.50%	1/16W	
R3009	1-218-710-11	METAL CHIP	5.6K	0.50%	1/16W	
R3010	1-218-716-11	METAL CHIP	10K	0.50%	1/16W	
R3011	1-216-821-11	RES-CHIP	1K	5%	1/16W	
R3012	1-216-864-11	SHORT	0			
R3013	1-216-813-11	RES-CHIP	220	5%	1/16W	
R3014	1-218-676-11	METAL CHIP	220	0.50%	1/16W	
R3015	1-216-864-11	SHORT	0			
R3017	1-216-809-11	RES-CHIP	100	5%	1/16W	
R3018	1-216-817-11	RES-CHIP	470	5%	1/16W	
R3019	1-218-686-11	METAL CHIP	560	0.50%	1/16W	
R3020	1-216-809-11	RES-CHIP	100	5%	1/16W	
R3021	1-216-809-11	RES-CHIP	100	5%	1/16W	
R3022	1-216-809-11	RES-CHIP	100	5%	1/16W	
R3023	1-216-833-11	RES-CHIP	10K	5%	1/16W	
R3024	1-216-809-11	RES-CHIP	100	5%	1/16W	
R3025	1-216-809-11	RES-CHIP	100	5%	1/16W	
R3026	1-216-035-00	RES-CHIP	270	5%	1/10W	
R3027	1-218-684-11	METAL CHIP	470	0.50%	1/16W	
R3028	1-218-688-11	METAL CHIP	680	0.50%	1/16W	
R3029	1-218-704-11	METAL CHIP	3.3K	0.50%	1/16W	
R3030	1-216-864-11	SHORT	0			
R3035	1-216-809-11	RES-CHIP	100	5%	1/16W	
R3036	1-216-809-11	RES-CHIP	100	5%	1/16W	
R3037	1-216-809-11	RES-CHIP	100	5%	1/16W	
R3038	1-218-686-11	METAL CHIP	560	0.50%	1/16W	
R3039	1-218-686-11	METAL CHIP	560	0.50%	1/16W	
R3040	1-218-686-11	METAL CHIP	560	0.50%	1/16W	
R3042	1-216-821-11	RES-CHIP	1K	5%	1/16W	
R3043	1-216-837-11	RES-CHIP	22K	5%	1/16W	
R3044	1-216-837-11	RES-CHIP	22K	5%	1/16W	
R3045	1-216-817-11	RES-CHIP	470	5%	1/16W	
R3046	1-216-817-11	RES-CHIP	470	5%	1/16W	
R3047	1-216-809-11	RES-CHIP	100	5%	1/16W	
R3048	1-216-809-11	RES-CHIP	100	5%	1/16W	
R3049	1-216-809-11	RES-CHIP	100	5%	1/16W	
R3050	1-216-809-11	RES-CHIP	100	5%	1/16W	
R3051	1-216-845-11	RES-CHIP	100K	5%	1/16W	
R3052	1-216-845-11	RES-CHIP	100K	5%	1/16W	
R3053	1-216-845-11	RES-CHIP	100K	5%	1/16W	
R3056	1-216-817-11	RES-CHIP	470	5%	1/16W	
R3057	1-216-817-11	RES-CHIP	470	5%	1/16W	
R3058	1-216-835-11	RES-CHIP	15K	5%	1/16W	
R3059	1-216-817-11	RES-CHIP	470	5%	1/16W	
R3060	1-216-809-11	RES-CHIP	100	5%	1/16W	
R3061	1-216-829-11	RES-CHIP	4.7K	5%	1/16W	

B

REF.NO.	PART NO.	DESCRIPTION			REMARK
R3062	1-218-697-11	METAL CHIP	1.6K	0.50%	1/16W
R3063	1-218-716-11	METAL CHIP	10K	0.50%	1/16W
R3064	1-218-696-11	METAL CHIP	1.5K	0.50%	1/16W
R3066	1-216-809-11	RES-CHIP	100	5%	1/16W
R3067	1-216-845-11	RES-CHIP	100K	5%	1/16W
R3068	1-216-809-11	RES-CHIP	100	5%	1/16W
R3071	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3072	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3073	1-216-805-11	RES-CHIP	47	5%	1/16W
R3074	1-216-805-11	RES-CHIP	47	5%	1/16W
R3075	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3076	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3077	1-216-809-11	RES-CHIP	100	5%	1/16W
R3078	1-216-832-11	RES-CHIP	8.2K	5%	1/16W
R3079	1-216-049-11	RES-CHIP	1K	5%	1/10W
R3080	1-216-845-11	RES-CHIP	100K	5%	1/16W
R3081	1-216-809-11	RES-CHIP	100	5%	1/16W
R3082	1-216-845-11	RES-CHIP	100K	5%	1/16W
R3083	1-216-864-11	SHORT	0		
R3084	1-216-864-11	SHORT	0		
R3085	1-216-864-11	SHORT	0		
R3086	1-216-864-11	SHORT	0		
R3087	1-216-864-11	SHORT	0		
R3088	1-216-864-11	SHORT	0		
R3089	1-216-864-11	SHORT	0		
R3090	1-216-861-11	RES-CHIP	2.2M	5%	1/16W
R3091	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R3092	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R3093	1-216-809-11	RES-CHIP	100	5%	1/16W
R3094	1-216-809-11	RES-CHIP	100	5%	1/16W
R3095	1-216-845-11	RES-CHIP	100K	5%	1/16W
R3096	1-216-817-11	RES-CHIP	470	5%	1/16W
R3097	1-216-845-11	RES-CHIP	100K	5%	1/16W
R3098	1-216-805-11	RES-CHIP	47	5%	1/16W
R3099	1-216-805-11	RES-CHIP	47	5%	1/16W
R3100	1-216-809-11	RES-CHIP	100	5%	1/16W
R3101	1-216-809-11	RES-CHIP	100	5%	1/16W
R3102	1-216-809-11	RES-CHIP	100	5%	1/16W
R3103	1-216-837-11	RES-CHIP	22K	5%	1/16W
R3104	1-216-809-11	RES-CHIP	100	5%	1/16W
R3105	1-216-809-11	RES-CHIP	100	5%	1/16W
R3106	1-216-837-11	RES-CHIP	22K	5%	1/16W
R3107	1-216-864-11	SHORT	0		
R3108	1-216-817-11	RES-CHIP	470	5%	1/16W
R3121	1-216-809-11	RES-CHIP	100	5%	1/16W
R3122	1-216-809-11	RES-CHIP	100	5%	1/16W
R3123	1-218-696-11	METAL CHIP	1.5K	0.50%	1/16W
R3124	1-218-696-11	METAL CHIP	1.5K	0.50%	1/16W
R3125	1-216-823-11	RES-CHIP	1.5K	5%	1/16W
R3126	1-216-823-11	RES-CHIP	1.5K	5%	1/16W
R3127	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R3128	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R3129	1-216-835-11	RES-CHIP	15K	5%	1/16W
R3130	1-216-837-11	RES-CHIP	22K	5%	1/16W
R3131	1-216-837-11	RES-CHIP	22K	5%	1/16W
R3132	1-216-837-11	RES-CHIP	22K	5%	1/16W
R3133	1-216-837-11	RES-CHIP	22K	5%	1/16W
R3134	1-216-837-11	RES-CHIP	22K	5%	1/16W
R3135	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3136	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3137	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3138	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3139	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3140	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3141	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3142	1-216-805-11	RES-CHIP	47	5%	1/16W
R3143	1-216-805-11	RES-CHIP	47	5%	1/16W
R3144	1-216-837-11	RES-CHIP	22K	5%	1/16W
R3145	1-216-837-11	RES-CHIP	22K	5%	1/16W
R3146	1-216-832-11	RES-CHIP	8.2K	5%	1/16W
R3147	1-216-837-11	RES-CHIP	22K	5%	1/16W
R3151	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R3152	1-216-818-11	RES-CHIP	560	5%	1/16W
R3154	1-216-832-11	RES-CHIP	8.2K	5%	1/16W
R3155	1-216-841-11	RES-CHIP	47K	5%	1/16W
R3156	1-216-837-11	RES-CHIP	22K	5%	1/16W
R3157	1-216-817-11	RES-CHIP	470	5%	1/16W
R3158	1-216-817-11	RES-CHIP	470	5%	1/16W
R3159	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R3160	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3161	1-216-809-11	RES-CHIP	100	5%	1/16W
R3162	1-216-815-11	RES-CHIP	330	5%	1/16W
R3163	1-218-710-11	METAL CHIP	5.6K	0.50%	1/16W
R3164	1-218-710-11	METAL CHIP	5.6K	0.50%	1/16W
R3165	1-216-861-11	RES-CHIP	2.2M	5%	1/16W
R3166	1-216-861-11	RES-CHIP	2.2M	5%	1/16W
R3180	1-218-673-11	METAL CHIP	160	0.50%	1/16W
R3181	1-218-673-11	METAL CHIP	160	0.50%	1/16W
R3182	1-218-673-11	METAL CHIP	160	0.50%	1/16W
R3183	1-216-809-11	RES-CHIP	100	5%	1/16W
R3184	1-216-809-11	RES-CHIP	100	5%	1/16W
R3185	1-216-809-11	RES-CHIP	100	5%	1/16W
R3186	1-218-674-11	METAL CHIP	180	0.50%	1/16W
R3187	1-218-674-11	METAL CHIP	180	0.50%	1/16W
R3188	1-218-674-11	METAL CHIP	180	0.50%	1/16W
R3190	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R3191	1-218-694-11	METAL CHIP	1.2K	0.50%	1/16W
R3192	1-216-814-11	RES-CHIP	270	5%	1/16W
R3193	1-218-698-11	METAL CHIP	1.8K	0.50%	1/16W
R3194	1-216-825-11	RES-CHIP	2.2K	5%	1/16W

REF.NO.	PART NO.	DESCRIPTION			REMARK
R3195	1-216-816-11	RES-CHIP	390	5%	1/16W
R3196	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3197	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R3198	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3201	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3202	1-216-809-11	RES-CHIP	100	5%	1/16W
R3203	1-216-809-11	RES-CHIP	100	5%	1/16W
R3204	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3205	1-216-809-11	RES-CHIP	100	5%	1/16W
R3207	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3208	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R3209	1-216-809-11	RES-CHIP	100	5%	1/16W
R3210	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R3211	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R3212	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R3213	1-216-809-11	RES-CHIP	100	5%	1/16W
R3215	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3216	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3217	1-216-809-11	RES-CHIP	100	5%	1/16W
R3218	1-216-809-11	RES-CHIP	100	5%	1/16W
R3219	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R3220	1-216-809-11	RES-CHIP	100	5%	1/16W
R3221	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3222	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R3223	1-216-809-11	RES-CHIP	100	5%	1/16W
R3224	1-216-815-11	RES-CHIP	330	5%	1/16W
R3226	1-216-809-11	RES-CHIP	100	5%	1/16W
R3227	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R3228	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R3229	1-216-809-11	RES-CHIP	100	5%	1/16W
R3230	1-216-809-11	RES-CHIP	100	5%	1/16W
R3231	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R3232	1-216-809-11	RES-CHIP	100	5%	1/16W
R3233	1-216-809-11	RES-CHIP	100	5%	1/16W
R3234	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R3235	1-216-809-11	RES-CHIP	100	5%	1/16W
R3236	1-216-809-11	RES-CHIP	100	5%	1/16W
R3240	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R3241	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R3242	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3244	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3246	1-216-809-11	RES-CHIP	100	5%	1/16W
R3247	1-216-809-11	RES-CHIP	100	5%	1/16W
R3248	1-216-809-11	RES-CHIP	100	5%	1/16W
R3249	1-216-809-11	RES-CHIP	100	5%	1/16W
R3250	1-216-809-11	RES-CHIP	100	5%	1/16W
R3254	1-216-809-11	RES-CHIP	100	5%	1/16W
R3255	1-216-809-11	RES-CHIP	100	5%	1/16W
R3256	1-216-809-11	RES-CHIP	100	5%	1/16W
R3257	1-216-809-11	RES-CHIP	100	5%	1/16W
R3258	1-208-755-11	METAL CHIP	75	0.50%	1/10W
R3259	1-216-853-11	RES-CHIP	470K	5%	1/16W
R3260	1-216-853-11	RES-CHIP	470K	5%	1/16W
R3261	1-216-827-11	RES-CHIP	3.3K	5%	1/16W
R3262	1-216-827-11	RES-CHIP	3.3K	5%	1/16W
R3263	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3264	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3265	1-216-857-11	RES-CHIP	1M	5%	1/16W
R3266	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R3267	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R3268	1-216-837-11	RES-CHIP	22K	5%	1/16W
R3269	1-216-809-11	RES-CHIP	100	5%	1/16W
R3270	1-249-382-11	CARBON	1.2	5%	1/4W
R3272	1-216-841-11	RES-CHIP	47K	5%	1/16W
R3273	1-216-819-11	RES-CHIP	680	5%	1/16W
R3275	1-216-819-11	RES-CHIP	680	5%	1/16W
R3276	1-216-819-11	RES-CHIP	680	5%	1/16W
R3277	1-216-819-11	RES-CHIP	680	5%	1/16W
R3279	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3280	1-208-755-11	METAL CHIP	75	0.50%	1/10W
R3281	1-208-755-11	METAL CHIP	75	0.50%	1/10W
R3282	1-208-755-11	METAL CHIP	75	0.50%	1/10W
R3284	1-216-864-11	SHORT	0		
R3285	1-216-817-11	RES-CHIP	470	5%	1/16W
R3286	1-218-716-11	METAL CHIP	10K	0.50%	1/16W
R3287	1-216-817-11	RES-CHIP	470	5%	1/16W
R3288	1-218-686-11	METAL CHIP	560	0.50%	1/16W
R3289	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R3290	1-216-809-11	RES-CHIP	100	5%	1/16W
R3291	1-216-842-11	RES-CHIP	56K	5%	1/16W
R3292	1-216-857-11	RES-CHIP	1M	5%	1/16W
R3293	1-216-803-11	RES-CHIP	33	5%	1/16W
R3294	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3296	1-216-845-11	RES-CHIP	100K	5%	1/16W
R3297	1-216-841-11	RES-CHIP	47K	5%	1/16W
R3298	1-208-755-11	METAL CHIP	75	0.50%	1/10W
R3299	1-208-755-11	METAL CHIP	75	0.50%	1/10W
R3300	1-208-755-11	METAL CHIP	75	0.50%	1/10W
R3301	1-216-809-11	RES-CHIP	100	5%	1/16W
R3302	1-218-694-11	METAL CHIP	1.2K	0.50%	1/16W
R3303	1-218-716-11	METAL CHIP	10K	0.50%	1/16W
R3304	1-218-692-11	METAL CHIP	1K	0.50%	1/16W
R3305	1-216-809-11	RES-CHIP	100	5%	1/16W
R3306	1-216-809-11	RES-CHIP	100	5%	1/16W
R3307	1-216-864-11	SHORT	0		
R3308	1-216-864-11	SHORT	0		
R3309	1-211-987-11	METAL CHIP	56	0.50%	1/16W
R3310	1-211-987-11	METAL CHIP	56	0.50%	1/16W
R3311	1-211-987-11	METAL CHIP	56	0.50%	1/16W
R3312	1-211-987-11	METAL CHIP	56	0.50%	1/16W

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REF.NO.	PART NO.	DESCRIPTION			REMARK
R3313	1-216-835-11	RES-CHIP	15K	5%	1/16W
R3314	1-211-990-11	METAL CHIP	75	0.50%	1/16W
R3315	1-216-835-11	RES-CHIP	15K	5%	1/16W
R3316	1-211-989-11	METAL CHIP	68	0.50%	1/16W
R3317	1-211-989-11	METAL CHIP	68	0.50%	1/16W
R3318	1-211-990-11	METAL CHIP	75	0.50%	1/16W
R3319	1-211-987-11	METAL CHIP	56	0.50%	1/16W
R3320	1-211-987-11	METAL CHIP	56	0.50%	1/16W
R3321	1-211-987-11	METAL CHIP	56	0.50%	1/16W
R3322	1-211-987-11	METAL CHIP	56	0.50%	1/16W
R3323	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R3324	1-216-827-11	RES-CHIP	3.3K	5%	1/16W
R3325	1-216-827-11	RES-CHIP	3.3K	5%	1/16W
R3326	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R3327	1-216-835-11	RES-CHIP	15K	5%	1/16W
R3328	1-216-864-11	SHORT	0		
R3329	1-216-815-11	RES-CHIP	330	5%	1/16W
R3330	1-216-815-11	RES-CHIP	330	5%	1/16W
R3331	1-216-841-11	RES-CHIP	47K	5%	1/16W
R3332	1-218-272-11	RES-CHIP	5.1K	5%	1/16W
R3333	1-216-864-11	SHORT	0		
R3334	1-216-809-11	RES-CHIP	100	5%	1/16W
R3335	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3337	1-216-820-11	RES-CHIP	820	5%	1/16W
R3338	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3339	1-216-855-11	RES-CHIP	680K	5%	1/16W
R3340	1-216-855-11	RES-CHIP	680K	5%	1/16W
R3341	1-216-813-11	RES-CHIP	220	5%	1/16W
R3342	1-220-158-11	RES-CHIP	3.6K	5%	1/16W
R3343	1-216-809-11	RES-CHIP	100	5%	1/16W
R3344	1-216-853-11	RES-CHIP	470K	5%	1/16W
R3345	1-218-704-11	METAL CHIP	3.3K	0.50%	1/16W
R3346	1-216-809-11	RES-CHIP	100	5%	1/16W
R3347	1-216-815-11	RES-CHIP	330	5%	1/16W
R3348	1-216-864-11	SHORT	0		
R3349	1-218-687-11	METAL CHIP	620	0.50%	1/16W
R3350	1-216-814-11	RES-CHIP	270	5%	1/16W
R3351	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R3352	1-216-853-11	RES-CHIP	470K	5%	1/16W
R3353	1-216-837-11	RES-CHIP	22K	5%	1/16W
R3354	1-216-813-11	RES-CHIP	220	5%	1/16W
R3355	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3356	1-216-864-11	SHORT	0		
R3357	1-218-676-11	METAL CHIP	220	0.50%	1/16W
R3358	1-218-676-11	METAL CHIP	220	0.50%	1/16W
R3359	1-218-676-11	METAL CHIP	220	0.50%	1/16W
R3360	1-216-827-11	RES-CHIP	3.3K	5%	1/16W
R3361	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R3364	1-216-864-11	SHORT	0		
R3365	1-216-864-11	SHORT	0		

REF.NO.	PART NO.	DESCRIPTION			REMARK
R3367	1-216-803-11	RES-CHIP	33	5%	1/16W
R3369	1-216-864-11	SHORT	0		
R3371	1-208-755-11	METAL CHIP	75	0.50%	1/10W
R3372	1-208-755-11	METAL CHIP	75	0.50%	1/10W
R3373	1-208-755-11	METAL CHIP	75	0.50%	1/10W
R3382	1-216-864-11	SHORT	0		
R3401	1-218-694-11	METAL CHIP	1.2K	0.50%	1/16W
R3403	1-218-692-11	METAL CHIP	1K	0.50%	1/16W
R3410	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3421	1-216-295-11	SHORT	0		
R3422	1-216-295-11	SHORT	0		
R3423	1-216-813-11	RES-CHIP	220	5%	1/16W
R3428	1-216-019-00	RES-CHIP	56	5%	1/10W
R3429	1-216-823-11	RES-CHIP	1.5K	5%	1/16W
R3432	1-216-815-11	RES-CHIP	330	5%	1/16W
R3434	1-216-809-11	RES-CHIP	100	5%	1/16W
R3445	1-216-864-11	SHORT	0		
R3446	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3447	1-216-819-11	RES-CHIP	680	5%	1/16W
R3448	1-216-855-11	RES-CHIP	680K	5%	1/16W
R3452	1-216-295-11	SHORT	0		
R3454	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R3460	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3461	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3464	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3465	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3467	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R3470	1-216-809-11	RES-CHIP	100	5%	1/16W
R3471	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3472	1-216-801-11	RES-CHIP	22	5%	1/16W
R3475	1-216-809-11	RES-CHIP	100	5%	1/16W
R3476	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3477	1-218-701-11	METAL CHIP	2.4K	0.50%	1/16W
R3478	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R3483	1-218-701-11	METAL CHIP	2.4K	0.50%	1/16W
R3484	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3485	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3486	1-216-801-11	RES-CHIP	22	5%	1/16W
R3489	1-216-864-11	SHORT	0		
R3490	1-216-864-11	SHORT	0		
R3491	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3492	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R3493	1-218-701-11	METAL CHIP	2.4K	0.50%	1/16W
R3495	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3496	1-216-801-11	RES-CHIP	22	5%	1/16W
R3497	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R3498	1-216-818-11	RES-CHIP	560	5%	1/16W
R3499	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3602	1-216-809-11	RES-CHIP	100	5%	1/16W
R3606	1-216-864-11	SHORT	0		

REF.NO.	PART NO.	DESCRIPTION			REMARK
R3609	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3610	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3611	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3612	1-216-857-11	RES-CHIP	1M	5%	1/16W
R3613	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3614	1-216-813-11	RES-CHIP	220	5%	1/16W
R3615	1-216-809-11	RES-CHIP	100	5%	1/16W
R3616	1-216-805-11	RES-CHIP	47	5%	1/16W
R3617	1-216-805-11	RES-CHIP	47	5%	1/16W
R3618	1-216-817-11	RES-CHIP	470	5%	1/16W
R3619	1-216-809-11	RES-CHIP	100	5%	1/16W
R3620	1-216-813-11	RES-CHIP	220	5%	1/16W
R3621	1-216-813-11	RES-CHIP	220	5%	1/16W
R3622	1-216-813-11	RES-CHIP	220	5%	1/16W
R3623	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R3624	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R3625	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R3626	1-216-815-11	RES-CHIP	330	5%	1/16W
R3627	1-216-815-11	RES-CHIP	330	5%	1/16W
R3628	1-216-815-11	RES-CHIP	330	5%	1/16W
R3630	1-216-809-11	RES-CHIP	100	5%	1/16W
R3639	1-216-864-11	SHORT	0		
R3640	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3641	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3642	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3644	1-216-857-11	RES-CHIP	1M	5%	1/16W
R3645	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3646	1-216-813-11	RES-CHIP	220	5%	1/16W
R3647	1-216-809-11	RES-CHIP	100	5%	1/16W
R3648	1-216-805-11	RES-CHIP	47	5%	1/16W
R3649	1-216-805-11	RES-CHIP	47	5%	1/16W
R3650	1-216-817-11	RES-CHIP	470	5%	1/16W
R3651	1-216-809-11	RES-CHIP	100	5%	1/16W
R3652	1-216-813-11	RES-CHIP	220	5%	1/16W
R3653	1-216-813-11	RES-CHIP	220	5%	1/16W
R3654	1-216-813-11	RES-CHIP	220	5%	1/16W
R3655	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R3656	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R3657	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R3658	1-216-815-11	RES-CHIP	330	5%	1/16W
R3659	1-216-815-11	RES-CHIP	330	5%	1/16W
R3660	1-216-815-11	RES-CHIP	330	5%	1/16W
R3661	1-216-809-11	RES-CHIP	100	5%	1/16W
R3662	1-216-837-11	RES-CHIP	22K	5%	1/16W
R3663	1-216-837-11	RES-CHIP	22K	5%	1/16W
R3664	1-216-841-11	RES-CHIP	47K	5%	1/16W
R3665	1-216-817-11	RES-CHIP	470	5%	1/16W
R3666	1-216-809-11	RES-CHIP	100	5%	1/16W
R3667	1-216-839-11	RES-CHIP	33K	5%	1/16W
R3668	1-216-797-11	RES-CHIP	10	5%	1/16W

REF.NO.	PART NO.	DESCRIPTION			REMARK
R3669	1-216-809-11	RES-CHIP	100	5%	1/16W
R3672	1-216-864-11	SHORT	0		
R3673	1-216-809-11	RES-CHIP	100	5%	1/16W
R3674	1-216-813-11	RES-CHIP	220	5%	1/16W
R3675	1-216-813-11	RES-CHIP	220	5%	1/16W
R3676	1-216-809-11	RES-CHIP	100	5%	1/16W
R3677	1-216-809-11	RES-CHIP	100	5%	1/16W
R3678	1-216-809-11	RES-CHIP	100	5%	1/16W
R3679	1-216-809-11	RES-CHIP	100	5%	1/16W
R3680	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3681	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3682	1-216-837-11	RES-CHIP	22K	5%	1/16W
R3683	1-216-837-11	RES-CHIP	22K	5%	1/16W
R3684	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3685	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3686	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3687	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3688	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3689	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3690	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3691	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3692	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3693	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3694	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3695	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3696	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3697	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3698	1-216-845-11	RES-CHIP	100K	5%	1/16W
R3699	1-216-845-11	RES-CHIP	100K	5%	1/16W
R3800	1-216-864-11	SHORT	0		
R3802	1-208-762-11	METAL CHIP	150	0.50%	1/10W
R3803	1-208-762-11	METAL CHIP	150	0.50%	1/10W
R3804	1-208-762-11	METAL CHIP	150	0.50%	1/10W
R3805	1-208-762-11	METAL CHIP	150	0.50%	1/10W
R3806	1-211-987-11	METAL CHIP	56	0.50%	1/16W
R3807	1-208-754-11	METAL CHIP	68	0.50%	1/10W
R3808	1-208-755-11	METAL CHIP	75	0.50%	1/10W
R3809	1-208-755-11	METAL CHIP	75	0.50%	1/10W
R3810	1-208-758-11	METAL CHIP	100	0.50%	1/10W
R3811	1-216-809-11	RES-CHIP	100	5%	1/16W
R3812	1-216-809-11	RES-CHIP	100	5%	1/16W
R3813	1-216-809-11	RES-CHIP	100	5%	1/16W
R3814	1-211-969-11	METAL CHIP	10	0.50%	1/16W
R3815	1-211-973-11	METAL CHIP	15	0.50%	1/16W
R3816	1-211-977-11	METAL CHIP	22	0.50%	1/16W
R3817	1-211-977-11	METAL CHIP	22	0.50%	1/16W
R3820	1-218-684-11	METAL CHIP	470	0.50%	1/16W
R3821	1-218-684-11	METAL CHIP	470	0.50%	1/16W
R3822	1-218-684-11	METAL CHIP	470	0.50%	1/16W
R3823	1-216-826-11	RES-CHIP	2.7K	5%	1/16W

B

REF.NO.	PART NO.	DESCRIPTION			REMARK
R3824	1-216-826-11	RES-CHIP	2.7K	5%	1/16W
R3825	1-216-826-11	RES-CHIP	2.7K	5%	1/16W
R3826	1-216-809-11	RES-CHIP	100	5%	1/16W
R3828	1-218-684-11	METAL CHIP	470	0.50%	1/16W
R3829	1-218-684-11	METAL CHIP	470	0.50%	1/16W
R3830	1-218-684-11	METAL CHIP	470	0.50%	1/16W
R3831	1-216-864-11	SHORT	0		
R3832	1-216-864-11	SHORT	0		
R3833	1-216-864-11	SHORT	0		
R3840	1-216-807-11	RES-CHIP	68	5%	1/16W
R3843	1-218-694-11	METAL CHIP	1.2K	0.50%	1/16W
R3844	1-218-712-11	METAL CHIP	6.8K	0.50%	1/16W
R3845	1-218-692-11	METAL CHIP	1K	0.50%	1/16W
R3846	1-216-801-11	RES-CHIP	22	5%	1/16W
R3847	1-216-801-11	RES-CHIP	22	5%	1/16W
R3848	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R3849	1-218-675-11	METAL CHIP	200	0.50%	1/16W
R3850	1-218-675-11	METAL CHIP	200	0.50%	1/16W
R3851	1-216-809-11	RES-CHIP	100	5%	1/16W
R3852	1-218-675-11	METAL CHIP	200	0.50%	1/16W
R3854	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R3857	1-216-809-11	RES-CHIP	100	5%	1/16W
R3858	1-218-704-11	METAL CHIP	3.3K	0.50%	1/16W
R3862	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R3863	1-218-700-11	METAL CHIP	2.2K	0.50%	1/16W
R3864	1-216-827-11	RES-CHIP	3.3K	5%	1/16W
R3865	1-216-809-11	RES-CHIP	100	5%	1/16W
R3866	1-414-234-22	FERRITE	0μH		
R3867	1-414-234-22	FERRITE	0μH		
R3868	1-414-234-22	FERRITE	0μH		
R3869	1-218-719-11	METAL CHIP	13K	0.50%	1/16W
R3870	1-218-719-11	METAL CHIP	13K	0.50%	1/16W
R3871	1-218-719-11	METAL CHIP	13K	0.50%	1/16W
R3872	1-211-990-11	METAL CHIP	75	0.50%	1/16W
R3873	1-211-990-11	METAL CHIP	75	0.50%	1/16W
R3874	1-211-990-11	METAL CHIP	75	0.50%	1/16W
R3876	1-208-762-11	METAL CHIP	150	0.50%	1/10W
R3901	1-216-035-00	RES-CHIP	270	5%	1/10W
R3902	1-216-035-00	RES-CHIP	270	5%	1/10W
R3903	1-216-837-11	RES-CHIP	22K	5%	1/16W
R3904	1-216-837-11	RES-CHIP	22K	5%	1/16W
R3905	1-216-809-11	RES-CHIP	100	5%	1/16W
R3906	1-216-809-11	RES-CHIP	100	5%	1/16W
R3907	1-216-809-11	RES-CHIP	100	5%	1/16W
R3908	1-216-809-11	RES-CHIP	100	5%	1/16W
R3909	1-216-809-11	RES-CHIP	100	5%	1/16W
R3910	1-216-809-11	RES-CHIP	100	5%	1/16W
R3914	1-216-864-11	SHORT	0		
R3915	1-211-969-11	METAL CHIP	10	0.50%	1/16W
R3916	1-211-969-11	METAL CHIP	10	0.50%	1/16W
R3917	1-211-969-11	METAL CHIP	10	0.50%	1/16W
R3923	1-412-363-21	FERRITE	0μH		
R3924	1-208-755-11	METAL CHIP	75	0.50%	1/10W
R3925	1-208-755-11	METAL CHIP	75	0.50%	1/10W
R3926	1-208-755-11	METAL CHIP	75	0.50%	1/10W
R3933	1-216-864-11	SHORT	0		
R3940	1-216-864-11	SHORT	0		
R3942	1-216-864-11	SHORT	0		
R3943	1-216-864-11	SHORT	0		
R3945	1-216-864-11	SHORT	0		
R3946	1-216-864-11	SHORT	0		
R3953	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R3954	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R3955	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R3956	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R3957	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R3958	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R3959	1-208-755-11	METAL CHIP	75	0.50%	1/10W
R3960	1-208-755-11	METAL CHIP	75	0.50%	1/10W
R3961	1-208-755-11	METAL CHIP	75	0.50%	1/10W

RESISTOR BRIDGE

RB3301	1-234-525-11	RES, NETWORK	56
RB3302	1-234-525-11	RES, NETWORK	56
RB3303	1-234-525-11	RES, NETWORK	56
RB3304	1-234-525-11	RES, NETWORK	56
RB3305	1-234-525-11	RES, NETWORK	56
RB3306	1-234-525-11	RES, NETWORK	56
RB3307	1-234-525-11	RES, NETWORK	56
RB3401	1-234-524-11	RES, NETWORK	33
RB3402	1-234-524-11	RES, NETWORK	33
RB3403	1-234-524-11	RES, NETWORK	33
RB3404	1-234-524-11	RES, NETWORK	33
RB3405	1-234-524-11	RES, NETWORK	33
RB3406	1-234-524-11	RES, NETWORK	33
RB3407	1-234-524-11	RES, NETWORK	33
RB3408	1-234-524-11	RES, NETWORK	33
RB3409	1-234-524-11	RES, NETWORK	33
RB3410	1-234-524-11	RES, NETWORK	33
RB3411	1-234-524-11	RES, NETWORK	33
RB3412	1-234-524-11	RES, NETWORK	33

CRYSTAL

X3001	1-577-082-11	VIBRATOR, CERAMIC CHIP
X3047	1-567-505-11	OSCILLATOR, CRYSTAL
X3089	1-781-945-21	VIBRATOR, CERAMIC CHIP
X3110	1-567-505-11	OSCILLATOR, CRYSTAL
X3401	1-781-887-21	VIBRATOR, CRYSTAL

REF.NO.	PART NO.	DESCRIPTION	REMARK
X3402	1-781-579-21	OSCILLATOR, CRYSTAL	
X3601	1-767-179-31	VIBRATOR, CERAMIC	
X3602	1-767-179-31	VIBRATOR, CERAMIC	
X3603	1-767-989-11	VIBRATOR, CERAMIC CHIP	

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* **A-1299-256-A A BOARD, COMPLETE**
(KV-32XBR400/36XBR400/38DRC1/36XBR400H only)
* **A-1299-283-A A BOARD, COMPLETE**
(KV-38DRC1C only)

* **4-374-846-11 COVER, CAPACITOR, CAP TYPE**
(KV-32XBR400/36XBR400/38DRC1/36XBR400H only)
* **4-374-846-01 COVER, CAPACITOR, CAP TYPE**
(KV-38DRC1C only)

4-382-854-01 SCREW (M3X8), P, SW (+)

CAPACITOR

REF.NO.	PART NO.	DESCRIPTION			REMARK
C001	1-164-161-11	CERAMIC CHIP	0.0022μF	10%	50V
C002	1-104-665-11	ELECT	100μF	20%	10V
C003	1-126-960-11	ELECT	1μF	20%	50V
C004	1-126-967-11	ELECT	47μF	20%	50V
C005	1-164-161-11	CERAMIC CHIP	0.0022μF	10%	50V
C006	1-164-161-11	CERAMIC CHIP	0.0022μF	10%	50V
C007	1-126-933-11	ELECT	100μF	20%	16V
C008	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C009	1-126-964-11	ELECT	10μF	20%	50V
C010	1-126-933-11	ELECT	100μF	20%	16V
C011	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C012	1-164-161-11	CERAMIC CHIP	0.0022μF	10%	50V
C013	1-164-161-11	CERAMIC CHIP	0.0022μF	10%	50V
C014	1-126-960-11	ELECT	1μF	20%	50V
C023	1-164-161-11	CERAMIC CHIP	0.0022μF	10%	50V
C025	1-164-161-11	CERAMIC CHIP	0.0022μF	10%	50V
C027	1-164-161-11	CERAMIC CHIP	0.0022μF	10%	50V
C028	1-126-933-11	ELECT	100μF	20%	16V
C030	1-104-665-11	ELECT	100μF	20%	10V
C032	1-126-933-11	ELECT	100μF	20%	16V
C035	1-164-161-11	CERAMIC CHIP	0.0022μF	10%	50V
C037	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C038	1-126-935-11	ELECT	470μF	20%	16V
C039	1-126-964-11	ELECT	10μF	20%	50V
C041	1-164-161-11	CERAMIC CHIP	0.0022μF	10%	50V
C048	1-126-964-11	ELECT	10μF	20%	50V
C051	1-107-714-11	ELECT	10μF	20%	16V
C052	1-107-714-11	ELECT	10μF	20%	16V
C115	1-163-001-11	CERAMIC CHIP	220pF	10%	50V
C116	1-104-760-11	CERAMIC CHIP	0.047μF	10%	50V
C117	1-164-346-11	CERAMIC CHIP	1μF		16V
C119	1-163-001-11	CERAMIC CHIP	220pF	10%	50V
C120	1-104-760-11	CERAMIC CHIP	0.047μF	10%	50V
C121	1-164-346-11	CERAMIC CHIP	1μF		16V
C205	1-115-340-11	CERAMIC CHIP	0.22μF	10%	25V
C210	1-127-760-11	CERAMIC CHIP	4.7μF	10%	6.3V
C211	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C212	1-126-933-11	ELECT	100μF	20%	16V
C213	1-164-161-11	CERAMIC CHIP	0.0022μF	10%	50V
C214	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C216	1-126-933-11	ELECT	100μF	20%	16V
C217	1-107-823-11	CERAMIC CHIP	0.47μF	10%	16V
C219	1-164-344-11	CERAMIC CHIP	0.068μF	10%	25V
C220	1-107-823-11	CERAMIC CHIP	0.47μF	10%	16V
C221	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C222	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C223	1-136-244-11	FILM	0.1μF	5%	50V
C224	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C225	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C226	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C227	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C229	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C230	1-107-823-11	CERAMIC CHIP	0.47μF	10%	16V
C232	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C233	1-164-492-11	CERAMIC CHIP	0.15μF	10%	16V
C234	1-125-838-11	CERAMIC CHIP	2.2μF	10%	6.3V
C235	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C236	1-126-964-11	ELECT	10μF	20%	50V
C237	1-126-933-11	ELECT	100μF	20%	16V
C238	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C239	1-126-964-11	ELECT	10μF	20%	50V
C240	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C241	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C242	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C243	1-107-823-11	CERAMIC CHIP	0.47μF	10%	16V
C244	1-163-017-00	CERAMIC CHIP	.0047μF	10%	50V
C245	1-107-823-11	CERAMIC CHIP	0.47μF	10%	16V
C246	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C247	1-126-933-11	ELECT	100μF	20%	16V
C248	1-127-760-11	CERAMIC CHIP	4.7μF	10%	6.3V
C249	1-126-967-11	ELECT	47μF	20%	50V
C250	1-107-823-11	CERAMIC CHIP	0.47μF	10%	16V
C251	1-115-340-11	CERAMIC CHIP	0.22μF	10%	25V
C252	1-126-933-11	ELECT	100μF	20%	16V
C253	1-163-009-11	CERAMIC CHIP	0.001μF	10%	50V
C254	1-115-339-11	CERAMIC CHIP	0.1μF	10%	50V
C255	1-163-243-11	CERAMIC CHIP	47pF	5%	50V
C256	1-163-243-11	CERAMIC CHIP	47pF	5%	50V
C257	1-127-760-11	CERAMIC CHIP	4.7μF	10%	6.3V

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The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une1 piece portant le numero specifie.

REF.NO.	PART NO.	DESCRIPTION	REMARK		
C258	1-164-346-11	CERAMIC CHIP	1µF		16V
C259	1-115-340-11	CERAMIC CHIP	0.22µF	10%	25V
C260	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C261	1-126-933-11	ELECT	100µF	20%	16V
C701	1-164-489-11	CERAMIC CHIP	0.22µF	10%	16V
C702	1-104-664-11	ELECT	47µF	20%	16V
C703	1-104-664-11	ELECT	47µF	20%	16V
C705	1-164-346-11	CERAMIC CHIP	1µF		16V
C708	1-164-346-11	CERAMIC CHIP	1µF		16V
C710	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C711	1-163-227-11	CERAMIC CHIP	10pF	0.50pF	50V
C712	1-104-664-11	ELECT	47µF	20%	16V
C713	1-164-690-91	CERAMIC CHIP	0.0022µF	5%	50V
C715	1-126-964-11	ELECT	10µF	20%	50V
C717	1-163-031-11	CERAMIC CHIP	0.01µF		50V
C718	1-163-235-11	CERAMIC CHIP	22pF	5%	50V
C719	1-163-235-11	CERAMIC CHIP	22pF	5%	50V
C720	1-126-935-11	ELECT	470µF	20%	16V
C721	1-163-231-11	CERAMIC CHIP	15pF	5%	50V
C722	1-163-231-11	CERAMIC CHIP	15pF	5%	50V
C724	1-126-961-11	ELECT	2.2µF	20%	50V
C731	1-163-009-11	CERAMIC CHIP	0.001µF	10%	50V
C732	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C733	1-163-031-11	CERAMIC CHIP	0.01µF		50V
C735	1-163-275-11	CERAMIC CHIP	0.001µF	5%	50V
C747	1-126-767-11	ELECT	1000µF	20%	16V
C748	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C6002⚠	1-136-346-21	MYLAR	0.22µF	20%	300V
C6003	1-117-227-11	MYLAR	1µF	10%	450V
C6004	1-126-961-11	ELECT	2.2µF	20%	50V
C6005	1-126-961-11	ELECT	2.2µF	20%	50V
C6006	1-126-967-11	ELECT	47µF	20%	50V
C6007	1-163-009-11	CERAMIC CHIP	0.001µF	10%	50V
C6008	1-126-968-11	ELECT	100µF	20%	50V
C6009	1-104-664-11	ELECT	47µF	20%	25V
C6011	1-126-968-11	ELECT	100µF	20%	50V
C6013	1-119-887-51	CERAMIC CHIP	1000pF	20%	250V
C6014	1-135-945-21	FILM	10000pF	3%	800V
C6015	1-137-399-11	MYLAR	0.1µF	5%	100V
C6017	1-125-969-91	CERAMIC CHIP	680pF	10%	1KV
C6018	1-126-929-11	ELECT	4700µF	20%	10V
C6019	1-128-546-11	ELECT	10000µF	20%	10V
C6020	1-126-936-11	ELECT	3300µF	20%	16V
C6021	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C6026	1-126-933-11	ELECT	100µF	20%	16V
C6027	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C6028	1-113-924-11	CERAMIC	0.0047µF	20%	250V
	(KV-38DRC1C only)				
C6029⚠	1-136-311-21	MYLAR	0.47µF	20%	300V
C6030	1-126-935-11	ELECT	470µF	20%	16V
C6033	1-126-941-11	ELECT	470µF	20%	25V
C6045	1-126-926-11	ELECT	1000µF	20%	10V
C6048	1-126-767-11	ELECT	1000µF	20%	16V
C6057	1-126-916-11	ELECT	1000µF	20%	6.3V
C6059	1-126-971-11	ELECT	470µF	20%	50V
C6060	1-135-573-91	ELECT	1500µF	20%	25V
C6061	1-126-960-11	ELECT	1µF	20%	50V
C6062	1-104-664-11	ELECT	47µF	20%	25V
C6063	1-136-479-11	FILM	0.001µF	2%	50V
C6064	1-126-964-11	ELECT	10µF	20%	50V
C6065	1-126-933-11	ELECT	100µF	20%	16V
C7001	1-126-961-11	ELECT	2.2µF	20%	50V
C7006	1-126-767-11	ELECT	1000µF	20%	16V
C7007	1-136-169-00	FILM	0.22µF	5%	50V
C7008	1-126-767-11	ELECT	1000µF	20%	16V
C7009	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C7010	1-126-963-11	ELECT	4.7µF	20%	50V
C7011	1-126-959-11	ELECT	0.47µF	20%	50V
C7012	1-163-017-00	CERAMIC CHIP	.0047µF	10%	50V
C7013	1-164-182-11	CERAMIC CHIP	0.0033µF	10%	50V
C7014	1-163-989-11	CERAMIC CHIP	0.033µF	10%	25V
C7015	1-163-989-11	CERAMIC CHIP	0.033µF	10%	25V
C7016	1-126-959-11	ELECT	0.47µF	20%	50V
C7017	1-126-963-11	ELECT	4.7µF	20%	50V
C7018	1-136-169-00	FILM	0.22µF	5%	50V
C7019	1-163-017-00	CERAMIC CHIP	.0047µF	10%	50V
C7020	1-163-989-11	CERAMIC CHIP	0.033µF	10%	25V
C7021	1-164-182-11	CERAMIC CHIP	0.0033µF	10%	50V
C7022	1-163-989-11	CERAMIC CHIP	0.033µF	10%	25V
C7023	1-126-935-11	ELECT	470µF	20%	16V
C7024	1-126-935-11	ELECT	470µF	20%	16V
C7025	1-126-960-11	ELECT	1µF	20%	50V
C7026	1-126-960-11	ELECT	1µF	20%	50V
C7028	1-136-165-00	FILM	0.1µF	5%	50V
C7029	1-163-009-11	CERAMIC CHIP	0.001µF	10%	50V
C7030	1-126-953-11	ELECT	2200µF	20%	35V
C7032	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C7033	1-126-934-11	ELECT	220µF	20%	16V
C7034	1-136-165-00	FILM	0.1µF	5%	50V
C7035	1-136-165-00	FILM	0.1µF	5%	50V
C7036	1-126-942-61	ELECT	1000µF	20%	25V
C7037	1-136-160-00	FILM	0.039µF	5%	50V
C7038	1-126-942-61	ELECT	1000µF	20%	25V
C7039	1-136-160-00	FILM	0.039µF	5%	50V
C7056	1-126-953-11	ELECT	2200µF	20%	35V
C7057	1-126-953-11	ELECT	2200µF	20%	35V
C7058	1-126-960-11	ELECT	1µF	20%	50V
C7059	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C7061	1-126-964-11	ELECT	10µF	20%	50V
C7062	1-163-009-11	CERAMIC CHIP	0.001µF	10%	50V

REF.NO.	PART NO.	DESCRIPTION			REMARK
C7063	1-136-165-00	FILM	0.1µF	5%	50V
C7064	1-126-953-11	ELECT	2200µF	20%	35V
C7066	1-136-165-00	FILM	0.1µF	5%	50V
C7067	1-136-165-00	FILM	0.1µF	5%	50V
C7069	1-136-165-00	FILM	0.1µF	5%	50V
C7070	1-136-165-00	FILM	0.1µF	5%	50V
C7071	1-137-437-11	MYLAR	0.0056µF	5%	50V
C7072	1-137-437-11	MYLAR	0.0056µF	5%	50V
C7074	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C7075	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C7076	1-126-968-11	ELECT	100µF	20%	50V
C7077	1-126-960-11	ELECT	1µF	20%	50V
C7078	1-126-960-11	ELECT	1µF	20%	50V
C7084	1-163-017-00	CERAMIC CHIP	.0047µF	10%	50V
C7088	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C7089	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C7090	1-104-664-11	ELECT	47µF	20%	25V
C7094	1-126-960-11	ELECT	1µF	20%	50V
C7095	1-126-960-11	ELECT	1µF	20%	50V
C7096	1-126-960-11	ELECT	1µF	20%	50V
C7099	1-126-964-11	ELECT	10µF	20%	50V
C7101	1-126-935-11	ELECT	470µF	20%	16V
C7102	1-126-934-11	ELECT	220µF	20%	16V
C7103	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C7105	1-126-935-11	ELECT	470µF	20%	16V
C7108	1-126-961-11	ELECT	2.2µF	20%	50V
C7109	1-126-961-11	ELECT	2.2µF	20%	50V
C7110	1-126-941-11	ELECT	470µF	20%	25V
C7151	1-126-967-11	ELECT	47µF	20%	50V
C7152	1-126-967-11	ELECT	47µF	20%	50V

CONNECTOR

REF.NO.	PART NO.	DESCRIPTION	REMARK
*CN001	1-573-296-21	CONNECTOR, BOARD TO BOARD	10P
*CN003	1-785-304-11	CONNECTOR, DIN (RECEPTACLE)	64
*CN201	1-779-892-11	CONNECTORBOARTO BOARD	10P
*CN202	1-764-333-11	PLUG, CONNECTOR	10P
*CN203	1-779-892-11	CONNECTOR, BOARD TO BOARD	10P
*CN204	1-564-506-11	PLUG, CONNECTOR	3P
*CN701	1-564-515-11	PLUG, CONNECTOR	12P
*CN702	1-779-891-11	CONNECTOR, BOARD TO BOARD	8P
*CN703	1-779-891-11	CONNECTOR, BOARD TO BOARD	8P
*CN706	1-779-891-11	CONNECTOR, BOARD TO BOARD	8P
*CN707	1-564-507-11	PLUG, CONNECTOR	4P
*CN6001	1-766-241-11	PIN, CONNECTOR (PC BOARD)	3P
*CN6002	1-766-241-11	PIN, CONNECTOR (PC BOARD)	3P
*CN6003	1-508-786-00	PIN, CONNECTOR (5MM PITCH)	2P
*CN6005	1-766-176-11	PIN, CONNECTOR (PC BOARD)	6P
*CN6006	1-779-891-11	CONNECTOR, BOARD TO BOARD	8P
CN6007	1-580-843-11	PIN, CONNECTOR (POWER)	

REF.NO.	PART NO.	DESCRIPTION	REMARK
*CN6013	1-766-240-11	PIN, CONNECTOR (PC BOARD)	2P
*CN7001	1-573-296-21	CONNECTOR, BOARD TO BOARD	10P
*CN7003	1-564-511-11	PLUG, CONNECTOR	8P
*CN7008	1-564-511-61	PLUG, CONNECTOR	8P

DIODE

REF.NO.	PART NO.	DESCRIPTION	REMARK
D004	8-719-977-28	DIODE UDZS-TE17-10B	
D008	8-719-977-28	DIODE UDZS-TE17-10B	
D203	8-719-025-31	DIODE 02CZ5.6-TE85L	
D211	8-719-991-33	DIODE 1SS133T-77	
D212	8-719-073-01	DIODE MA111-TX	
D214	8-719-073-01	DIODE MA111-TX	
D215	8-719-073-01	DIODE MA111-TX	
D701	8-719-914-43	DIODE DAN202K-T-146	
D703	8-719-914-43	DIODE DAN202K-T-146	
D705	8-719-073-01	DIODE MA111-TX	
D706	8-719-914-43	DIODE DAN202K-T-146	
D707	8-719-914-43	DIODE DAN202K-T-146	
D708	8-719-073-01	DIODE MA111-TX	
D709	8-719-991-33	DIODE 1SS133T-77	
D710	8-719-914-43	DIODE DAN202K-T-146	
D711	8-719-914-44	DIODE DAP202K-T-146	
D715	8-719-914-43	DIODE DAN202K-T-146	
D716	8-719-914-44	DIODE DAP202K-T-146	
D719	8-719-073-01	DIODE MA111-TX	
D720	8-719-073-01	DIODE MA111-TX	
D721	8-719-073-01	DIODE MA111-TX	
D722	8-719-073-01	DIODE MA111-TX	
D723	8-719-914-43	DIODE DAN202K-T-146	
D724	8-719-073-01	DIODE MA111-TX	
D725	8-719-073-01	DIODE MA111-TX	
D726	8-719-073-01	DIODE MA111-TX	
D727	8-719-073-01	DIODE MA111-TX	
D728	8-719-073-01	DIODE MA111-TX	
D6001	8-719-991-33	DIODE 1SS133T-77	
D6002	8-719-991-33	DIODE 1SS133T-77	
D6003	8-719-979-64	DIODE UF4005PKG23	
D6005	8-719-063-73	DIODE D1NL20U-TR	
D6009	8-719-063-73	DIODE D1NL20U-TR	
D6011	8-719-031-79	DIODE D5SC4M	
D6012	8-719-031-79	DIODE D5SC4M	
D6013	8-719-031-79	DIODE D5SC4M	
D6014	8-719-921-63	DIODE MTZJ-T-77-7.5B	
D6017	8-719-921-37	DIODE MTZJ-T-77-4.7	
D6018	8-719-991-33	DIODE 1SS133T-77	
D6020	8-719-511-40	DIODE S1VB20	
D6025	8-719-073-01	DIODE MA111-TX	
D7002	8-719-991-33	DIODE 1SS133T-77	
D7003	8-719-914-43	DIODE DAN202K-T-146	

A

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une1 piece portant le numero specifie.

REF.NO.	PART NO.	DESCRIPTION	REMARK
D7004	8-719-914-44	DIODE DAP202K-T-146	
D7005	8-719-071-74	DIODE HZU11B1TRF	
D7009	8-719-073-01	DIODE MA111-TX	
D7010	8-719-073-01	DIODE MA111-TX	
D7011	8-719-073-01	DIODE MA111-TX	
D7012	8-719-073-01	DIODE MA111-TX	
D7013	8-719-041-97	DIODE MA113-(TX)	
D7014	8-719-924-13	DIODE MTZJ-T-77-22B	
D7015	8-719-924-13	DIODE MTZJ-T-77-22B	
D7016	8-719-041-97	DIODE MA113-(TX)	
D7017	8-719-041-97	DIODE MA113-(TX)	
D7103	8-719-073-01	DIODE MA111-TX	

FUSE

REF.NO.	PART NO.	DESCRIPTION	REMARK
F6001⚠	1-532-506-51	FUSE 6.3A/250V	

FERRITE BEAD

REF.NO.	PART NO.	DESCRIPTION	REMARK
FB6001	1-412-911-11	FERRITE 0µH	
FB6003	1-412-911-11	FERRITE 0µH	
FB6004	1-412-911-11	FERRITE 0µH	
FB6005	1-412-911-11	FERRITE 0µH	
FB6007	1-412-911-11	FERRITE 0µH	
FB6012⚠	1-412-911-11	FERRITE 0µH	
FB6013⚠	1-412-911-11	FERRITE 0µH	
	(KV-32XBR400/36XBR400/38DRC1/36XBR400H only)		
FB6014	1-412-911-11	FERRITE 0µH	
	(KV-38DRC1C only)		

FUSE HOLDER

REF.NO.	PART NO.	DESCRIPTION	REMARK
FH6001	1-533-223-11	HOLDER, FUSE	
FH6002	1-533-223-11	HOLDER, FUSE	

IC

REF.NO.	PART NO.	DESCRIPTION	REMARK
IC201	8-752-100-25	IC CXA2150AQ	
IC701	8-759-699-34	IC M306V2ME-151FP	
IC702	8-759-349-11	IC PST9145NL	
IC707	8-759-672-78	IC M24C08-BN6(A)	
IC6001	8-759-670-30	IC MCZ3001D	
IC6002	8-759-140-85	IC UPC1093J-T	
IC6003	8-759-520-49	IC PQ30RV21	
IC6007	8-759-513-71	IC PQ05RF21	
IC6010	8-759-198-03	IC PQ09RF21	
IC6011	8-759-450-47	IC BA05T	
IC7001	8-759-678-92	IC BH3868AFS-E2	
IC7002	8-759-246-70	IC TA8216H	
IC7005	8-759-246-70	IC TA8216H	
IC7006	8-759-331-71	IC NJM4558E(TE2)	
IC7007	8-759-331-71	IC NJM4558E(TE2)	

COIL

REF.NO.	PART NO.	DESCRIPTION	REMARK
L001	1-469-320-21	INDUCTOR 100µH	
L002	1-469-320-21	INDUCTOR 100µH	
L003	1-469-317-21	INDUCTOR 10µH	
L004	1-469-320-21	INDUCTOR 100µH	
L005	1-469-320-21	INDUCTOR 100µH	
L006	1-469-317-21	INDUCTOR 10µH	
L201	1-469-317-21	INDUCTOR 10µH	
L202	1-469-317-21	INDUCTOR 10µH	
L203	1-469-317-21	INDUCTOR 10µH	
L701	1-412-911-11	FERRITE 0µH	
L702	1-412-911-11	FERRITE 0µH	
L703	1-414-179-21	INDUCTOR 2.2µH	
L6001	1-406-665-11	INDUCTOR 100µH	
L6002	1-406-659-11	INDUCTOR 10µH	
L6003	1-406-659-11	INDUCTOR 10µH	
L6004	1-412-525-31	INDUCTOR 10µH	
L6006	1-412-519-11	INDUCTOR 3.3µH	
L6007	1-412-519-11	INDUCTOR 3.3µH	
L6008	1-469-317-21	INDUCTOR 10µH	
L7002	1-414-187-11	INDUCTOR 47µH	

PHOTO COUPLER

REF.NO.	PART NO.	DESCRIPTION	REMARK
PH6001	8-749-924-35	PHOTO COUPLER ON3171-R	

TRANSISTOR

REF.NO.	PART NO.	DESCRIPTION	REMARK
Q001	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q002	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q004	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q005	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q012	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q015	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q027	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q203	8-729-122-63	TRANSISTOR 2SA1226-T1E4	
Q204	8-729-122-63	TRANSISTOR 2SA1226-T1E4	
Q207	8-729-122-63	TRANSISTOR 2SA1226-T1E4	
Q208	8-729-122-63	TRANSISTOR 2SA1226-T1E4	
Q209	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q211	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q212	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q214	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q216	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q217	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	

REF.NO.	PART NO.	DESCRIPTION	REMARK
Q701	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q702	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q703	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q704	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q705	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q706	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q707	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q709	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q710	8-729-027-23	TRANSISTOR DTA114EKA-T146	
Q712	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q717	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q721	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q723	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q724	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q726	8-729-901-47	TRANSISTOR DTA143EKA-T146	
Q727	8-729-901-47	TRANSISTOR DTA143EKA-T146	
Q728	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q729	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q730	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q731	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q6001	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q6002	8-729-027-23	TRANSISTOR DTA114EKA-T146	
Q6007	8-729-052-29	TRANSISTOR 2SK2876-01MR-F122	
Q6008	8-729-052-29	TRANSISTOR 2SK2876-01MR-F122	
Q6009	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q6010	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q7001	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q7004	8-729-900-53	TRANSISTOR DTC114EKA-T146	
Q7005	8-729-900-53	TRANSISTOR DTC114EKA-T146	
Q7009	8-729-900-53	TRANSISTOR DTC114EKA-T146	
Q7010	8-729-900-53	TRANSISTOR DTC114EKA-T146	
Q7013	8-729-900-53	TRANSISTOR DTC114EKA-T146	
Q7014	8-729-900-53	TRANSISTOR DTC114EKA-T146	
Q7015	8-729-900-53	TRANSISTOR DTC114EKA-T146	
Q7016	8-729-900-53	TRANSISTOR DTC114EKA-T146	

RESISTOR

REF.NO.	PART NO.	DESCRIPTION			REMARK
R004	1-216-049-11	RES-CHIP	1K	5%	1/10W
R005	1-216-049-11	RES-CHIP	1K	5%	1/10W
R006	1-216-295-11	SHORT	0		
R007	1-216-017-91	RES-CHIP	47	5%	1/10W
R008	1-216-073-00	RES-CHIP	10K	5%	1/10W
R009	1-216-017-91	RES-CHIP	47	5%	1/10W
R010	1-216-073-00	RES-CHIP	10K	5%	1/10W
R011	1-216-113-00	RES-CHIP	470K	5%	1/10W
R012	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R013	1-216-081-00	RES-CHIP	22K	5%	1/10W
R014	1-216-085-00	RES-CHIP	33K	5%	1/10W
R015	1-208-776-11	METAL CHIP	560	0.50%	1/10W
R016	1-216-025-11	RES-CHIP	100	5%	1/10W
R017	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R037	1-216-295-11	SHORT	0		
R039	1-216-025-11	RES-CHIP	100	5%	1/10W
R042	1-216-025-11	RES-CHIP	100	5%	1/10W
R049	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R052	1-216-085-00	RES-CHIP	33K	5%	1/10W
R055	1-216-081-00	RES-CHIP	22K	5%	1/10W
R061	1-208-776-11	METAL CHIP	560	0.50%	1/10W
R065	1-216-025-11	RES-CHIP	100	5%	1/10W
R082	1-216-073-00	RES-CHIP	10K	5%	1/10W
R083	1-216-073-00	RES-CHIP	10K	5%	1/10W
R160	1-216-113-00	RES-CHIP	470K	5%	1/10W
R163	1-216-642-11	METAL CHIP	430	0.50%	1/10W
R164	1-216-041-00	RES-CHIP	470	5%	1/10W
R165	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R166	1-216-097-11	RES-CHIP	100K	5%	1/10W
R167	1-216-121-11	RES-CHIP	1M	5%	1/10W
R168	1-216-073-00	RES-CHIP	10K	5%	1/10W
R169	1-216-073-00	RES-CHIP	10K	5%	1/10W
R170	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R171	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R172	1-216-097-11	RES-CHIP	100K	5%	1/10W
R173	1-216-121-11	RES-CHIP	1M	5%	1/10W
R174	1-216-073-00	RES-CHIP	10K	5%	1/10W
R175	1-216-073-00	RES-CHIP	10K	5%	1/10W
R176	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R204	1-216-073-00	RES-CHIP	10K	5%	1/10W
R205	1-216-025-11	RES-CHIP	100	5%	1/10W
R206	1-208-752-11	METAL CHIP	56	0.50%	1/10W
R207	1-249-413-11	CARBON	470	5%	1/4W
R208	1-216-295-11	SHORT	0		
R210	1-216-025-11	RES-CHIP	100	5%	1/10W
R211	1-208-752-11	METAL CHIP	56	0.50%	1/10W
R215	1-249-413-11	CARBON	470	5%	1/4W
R219	1-216-025-11	RES-CHIP	100	5%	1/10W
R220	1-208-752-11	METAL CHIP	56	0.50%	1/10W
R221	1-249-413-11	CARBON	470	5%	1/4W
R223	1-216-025-11	RES-CHIP	100	5%	1/10W
R224	1-216-025-11	RES-CHIP	100	5%	1/10W
R226	1-216-073-00	RES-CHIP	10K	5%	1/10W
R228	1-216-025-11	RES-CHIP	100	5%	1/10W
R229	1-216-025-11	RES-CHIP	100	5%	1/10W
R230	1-216-025-11	RES-CHIP	100	5%	1/10W
R231	1-216-025-11	RES-CHIP	100	5%	1/10W
R232	1-216-025-11	RES-CHIP	100	5%	1/10W
R233	1-216-025-11	RES-CHIP	100	5%	1/10W
R234	1-216-025-11	RES-CHIP	100	5%	1/10W
R235	1-216-025-11	RES-CHIP	100	5%	1/10W

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REF.NO.	PART NO.	DESCRIPTION			REMARK
R236	1-216-025-11	RES-CHIP	100	5%	1/10W
R237	1-216-025-11	RES-CHIP	100	5%	1/10W
R238	1-216-025-11	RES-CHIP	100	5%	1/10W
R239	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
R240	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R241	1-216-133-00	RES-CHIP	3.3M	5%	1/10W
R242	1-216-075-00	RES-CHIP	12K	5%	1/10W
R243	1-216-073-00	RES-CHIP	10K	5%	1/10W
R244	1-216-025-11	RES-CHIP	100	5%	1/10W
R245	1-216-073-00	RES-CHIP	10K	5%	1/10W
R246	1-216-073-00	RES-CHIP	10K	5%	1/10W
R247	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R248	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R249	1-216-025-11	RES-CHIP	100	5%	1/10W
R250	1-216-097-11	RES-CHIP	100K	5%	1/10W
R251	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R252	1-216-025-11	RES-CHIP	100	5%	1/10W
R253	1-216-043-91	RES-CHIP	560	5%	1/10W
R255	1-216-025-11	RES-CHIP	100	5%	1/10W
R256	1-216-041-00	RES-CHIP	470	5%	1/10W
R257	1-216-017-91	RES-CHIP	47	5%	1/10W
R258	1-216-017-91	RES-CHIP	47	5%	1/10W
R259	1-216-017-91	RES-CHIP	47	5%	1/10W
R260	1-216-037-00	RES-CHIP	330	5%	1/10W
R261	1-208-806-11	METAL CHIP	10K	0.50%	1/10W
R262	1-216-025-11	RES-CHIP	100	5%	1/10W
R263	1-216-071-00	RES-CHIP	8.2K	5%	1/10W
R264	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R265	1-216-073-00	RES-CHIP	10K	5%	1/10W
R266	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R267	1-216-073-00	RES-CHIP	10K	5%	1/10W
R274	1-216-025-11	RES-CHIP	100	5%	1/10W
R275	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R276	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R277	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R278	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R280	1-216-295-11	SHORT	0		
R281	1-216-295-11	SHORT	0		
R282	1-216-295-11	SHORT	0		
R283	1-216-295-11	SHORT	0		
R284	1-216-295-11	SHORT	0		
R701	1-216-089-11	RES-CHIP	47K	5%	1/10W
R702	1-216-097-11	RES-CHIP	100K	5%	1/10W
R703	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R704	1-216-073-00	RES-CHIP	10K	5%	1/10W
R705	1-216-101-00	RES-CHIP	150K	5%	1/10W
R706	1-216-073-00	RES-CHIP	10K	5%	1/10W
R707	1-216-097-11	RES-CHIP	100K	5%	1/10W
R708	1-216-025-11	RES-CHIP	100	5%	1/10W
R709	1-216-097-11	RES-CHIP	100K	5%	1/10W
R710	1-216-073-00	RES-CHIP	10K	5%	1/10W
R711	1-216-073-00	RES-CHIP	10K	5%	1/10W
R712	1-216-049-11	RES-CHIP	1K	5%	1/10W
R713	1-216-025-11	RES-CHIP	100	5%	1/10W
R714	1-216-025-11	RES-CHIP	100	5%	1/10W
R719	1-216-049-11	RES-CHIP	1K	5%	1/10W
R721	1-216-049-11	RES-CHIP	1K	5%	1/10W
R727	1-216-049-11	RES-CHIP	1K	5%	1/10W
R729	1-216-049-11	RES-CHIP	1K	5%	1/10W
R731	1-216-073-00	RES-CHIP	10K	5%	1/10W
R740	1-216-073-00	RES-CHIP	10K	5%	1/10W
R741	1-216-073-00	RES-CHIP	10K	5%	1/10W
R742	1-216-041-00	RES-CHIP	470	5%	1/10W
R743	1-216-025-11	RES-CHIP	100	5%	1/10W
R744	1-216-049-11	RES-CHIP	1K	5%	1/10W
R748	1-216-081-00	RES-CHIP	22K	5%	1/10W
R749	1-216-049-11	RES-CHIP	1K	5%	1/10W
R754	1-216-025-11	RES-CHIP	100	5%	1/10W
R755	1-216-025-11	RES-CHIP	100	5%	1/10W
R756	1-216-025-11	RES-CHIP	100	5%	1/10W
R757	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R758	1-216-025-11	RES-CHIP	100	5%	1/10W
R762	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R763	1-216-295-11	SHORT	0		
R764	1-216-049-11	RES-CHIP	1K	5%	1/10W
R767	1-216-049-11	RES-CHIP	1K	5%	1/10W
R769	1-216-049-11	RES-CHIP	1K	5%	1/10W
R771	1-216-049-11	RES-CHIP	1K	5%	1/10W
R772	1-216-081-00	RES-CHIP	22K	5%	1/10W
R773	1-216-081-00	RES-CHIP	22K	5%	1/10W
R774	1-216-081-00	RES-CHIP	22K	5%	1/10W
R776	1-216-049-11	RES-CHIP	1K	5%	1/10W
R777	1-216-073-00	RES-CHIP	10K	5%	1/10W
R780	1-216-073-00	RES-CHIP	10K	5%	1/10W
R781	1-216-025-11	RES-CHIP	100	5%	1/10W
R784	1-216-025-11	RES-CHIP	100	5%	1/10W
R785	1-216-049-11	RES-CHIP	1K	5%	1/10W
R787	1-216-121-11	RES-CHIP	1M	5%	1/10W
R788	1-216-295-11	SHORT	0		
R789	1-216-041-00	RES-CHIP	470	5%	1/10W
R791	1-216-025-11	RES-CHIP	100	5%	1/10W
R792	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R793	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R794	1-216-017-91	RES-CHIP	47	5%	1/10W
R795	1-216-025-11	RES-CHIP	100	5%	1/10W
R796	1-216-295-11	SHORT	0		
R797	1-216-017-91	RES-CHIP	47	5%	1/10W
R798	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R799	1-216-049-11	RES-CHIP	1K	5%	1/10W
R800	1-216-057-00	RES-CHIP	2.2K	5%	1/10W

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REF.NO.	PART NO.	DESCRIPTION			REMARK
R801	1-216-025-11	RES-CHIP	100	5%	1/10W
R802	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R803	1-216-017-91	RES-CHIP	47	5%	1/10W
R804	1-216-037-00	RES-CHIP	330	5%	1/10W
R805	1-216-037-00	RES-CHIP	330	5%	1/10W
R806	1-216-037-00	RES-CHIP	330	5%	1/10W
R807	1-216-017-91	RES-CHIP	47	5%	1/10W
R808	1-216-049-11	RES-CHIP	1K	5%	1/10W
R812	1-216-049-11	RES-CHIP	1K	5%	1/10W
R813	1-216-049-11	RES-CHIP	1K	5%	1/10W
R814	1-216-025-11	RES-CHIP	100	5%	1/10W
R815	1-216-025-11	RES-CHIP	100	5%	1/10W
R816	1-216-025-11	RES-CHIP	100	5%	1/10W
R817	1-216-025-11	RES-CHIP	100	5%	1/10W
R818	1-216-025-11	RES-CHIP	100	5%	1/10W
R819	1-216-037-00	RES-CHIP	330	5%	1/10W
R822	1-216-037-00	RES-CHIP	330	5%	1/10W
R824	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R825	1-216-025-11	RES-CHIP	100	5%	1/10W
R827	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R828	1-216-073-00	RES-CHIP	10K	5%	1/10W
R829	1-216-073-00	RES-CHIP	10K	5%	1/10W
R830	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R834	1-216-041-00	RES-CHIP	470	5%	1/10W
R836	1-216-049-11	RES-CHIP	1K	5%	1/10W
R837	1-216-025-11	RES-CHIP	100	5%	1/10W
R838	1-216-049-11	RES-CHIP	1K	5%	1/10W
R839	1-216-025-11	RES-CHIP	100	5%	1/10W
R841	1-216-033-00	RES-CHIP	220	5%	1/10W
R842	1-216-081-00	RES-CHIP	22K	5%	1/10W
R843	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R847	1-216-025-11	RES-CHIP	100	5%	1/10W
R848	1-216-025-11	RES-CHIP	100	5%	1/10W
R849	1-216-295-11	SHORT	0		
R850	1-216-295-11	SHORT	0		
R851	1-216-295-11	SHORT	0		
R852	1-216-049-11	RES-CHIP	1K	5%	1/10W
R853	1-216-295-11	SHORT	0		
R854	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R856	1-216-049-11	RES-CHIP	1K	5%	1/10W
R857	1-216-025-11	RES-CHIP	100	5%	1/10W
R858	1-216-295-11	SHORT	0		
R859	1-216-295-11	SHORT	0		
R860	1-216-689-11	RES-CHIP	39K	5%	1/10W
R861	1-216-689-11	RES-CHIP	39K	5%	1/10W
R862	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R863	1-216-049-11	RES-CHIP	1K	5%	1/10W
R864	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R865	1-216-295-11	SHORT	0		
R866	1-216-295-11	SHORT	0		

REF.NO.	PART NO.	DESCRIPTION			REMARK
R867	1-216-081-00	RES-CHIP	22K	5%	1/10W
R6001	1-216-073-00	RES-CHIP	10K	5%	1/10W
R6002	1-249-393-11	CARBON	10	5%	1/4W
R6003⚠	1-219-776-11	CARBON	2.2M	10%	1/2W
	(KV-32XBR400/36XBR400/38DRC1/36XBR400H only)				
R6003⚠	1-247-289-00	CARBON	8.2M	5%	1W
	(KV-38DRC1C only)				
R6004	1-216-121-11	RES-CHIP	1M	5%	1/10W
R6006	1-217-418-61	FUSIBLE	0.47	10%	1/2W
R6007	1-215-481-00	METAL CHIP	330K	1%	1/4W
R6008	1-215-481-00	METAL CHIP	330K	1%	1/4W
R6009	1-215-481-00	METAL CHIP	330K	1%	1/4W
R6010	1-249-393-11	CARBON	10	5%	1/4W
R6011	1-208-806-11	METAL CHIP	10K	0.50%	1/10W
R6012	1-216-049-11	RES-CHIP	1K	5%	1/10W
R6015	1-216-049-11	RES-CHIP	1K	5%	1/10W
R6019	1-216-073-00	RES-CHIP	10K	5%	1/10W
R6020	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R6021	1-208-798-11	METAL CHIP	4.7K	0.50%	1/10W
R6022	1-208-803-11	METAL CHIP	7.5K	0.50%	1/10W
R6025	1-249-417-11	CARBON	1K	5%	1/4W
R6029	1-216-105-91	RES-CHIP	220K	5%	1/10W
R6038	1-208-806-11	METAL CHIP	10K	0.50%	1/10W
R6039	1-208-812-11	METAL CHIP	18K	0.50%	1/10W
R6040	1-208-840-11	METAL CHIP	270K	0.50%	1/10W
R6041⚠	1-240-241-11	CEMENTED	0.47	5%	20W
	(KV-32XBR400/36XBR400/38DRC1/36XBR400H only)				
R6041⚠	1-205-943-11	CEMENTED	1	5%	20W
	(KV-38DRC1C only)				
R6042⚠	1-240-241-11	CEMENTED	0.47	5%	20W
	(KV-32XBR400/36XBR400/38DRC1/36XBR400H only)				
R6042⚠	1-205-943-11	CEMENTED	1	5%	20W
	(KV-38DRC1C only)				
R6043	1-211-964-11	METAL CHIP	33	0.50%	1/10W
R6044	1-249-393-11	CARBON	10	5%	1/4W
R6046	1-216-073-00	RES-CHIP	10K	5%	1/10W
R6047	1-216-041-00	RES-CHIP	470	5%	1/10W
R6049	1-216-363-00	METAL OXIDE	0.33	5%	2W
R6050	1-216-363-00	METAL OXIDE	0.33	5%	2W
R6051	1-249-393-11	CARBON	10	5%	1/4W
R6052	1-216-073-00	RES-CHIP	10K	5%	1/10W
R6053	1-215-907-11	METAL OXIDE	22	5%	3W
R6055	1-216-295-11	SHORT	0		
R6056	1-208-810-11	METAL CHIP	15K	0.50%	1/10W
R6058	1-208-758-11	METAL CHIP	100	0.50%	1/10W
R6059	1-249-417-11	CARBON	1K	5%	1/4W
R6060	1-202-962-11	CEMENTED	3.3	5%	10W
	(KV-38DRC1C only)				
R6061	1-202-962-11	CEMENTED	3.3	5%	10W
	(KV-38DRC1C only)				

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REF.NO.	PART NO.	DESCRIPTION			REMARK
R6062	1-216-295-11	SHORT	0		
R6063	1-216-073-00	RES-CHIP	10K	5%	1/10W
R6064	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R6065	1-216-049-11	RES-CHIP	1K	5%	1/10W
R6066⚠	1-216-343-00	METAL OXIDE	0.33	5%	1W
R6067	1-216-049-11	RES-CHIP	1K	5%	1/10W
R6068	1-249-433-11	CARBON	22K	5%	1/4W
R7002	1-216-097-11	RES-CHIP	100K	5%	1/10W
R7003	1-216-689-11	RES-CHIP	39K	5%	1/10W
R7004	1-216-689-11	RES-CHIP	39K	5%	1/10W
R7005	1-216-121-11	RES-CHIP	1M	5%	1/10W
R7006	1-216-089-11	RES-CHIP	47K	5%	1/10W
R7007	1-216-017-91	RES-CHIP	47	5%	1/10W
R7008	1-216-085-00	RES-CHIP	33K	5%	1/10W
R7009	1-216-295-11	SHORT	0		
R7010	1-216-295-11	SHORT	0		
R7011	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R7012	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R7013	1-216-077-91	RES-CHIP	15K	5%	1/10W
R7014	1-249-429-11	CARBON	10K	5%	1/4W
R7015	1-249-429-11	CARBON	10K	5%	1/4W
R7016	1-216-073-00	RES-CHIP	10K	5%	1/10W
R7017	1-216-073-00	RES-CHIP	10K	5%	1/10W
R7018	1-216-073-00	RES-CHIP	10K	5%	1/10W
R7019	1-216-073-00	RES-CHIP	10K	5%	1/10W
R7021	1-216-049-11	RES-CHIP	1K	5%	1/10W
R7022	1-216-073-00	RES-CHIP	10K	5%	1/10W
R7023	1-249-385-11	CARBON	2.2	5%	1/4W
R7024	1-216-049-11	RES-CHIP	1K	5%	1/10W
R7025	1-216-049-11	RES-CHIP	1K	5%	1/10W
R7026	1-249-385-11	CARBON	2.2	5%	1/4W
R7045	1-216-081-00	RES-CHIP	22K	5%	1/10W
R7046	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R7047	1-216-041-00	RES-CHIP	470	5%	1/10W
R7048	1-216-041-00	RES-CHIP	470	5%	1/10W
R7051	1-216-295-11	SHORT	0		
R7052	1-216-077-91	RES-CHIP	15K	5%	1/10W
R7053	1-216-049-11	RES-CHIP	1K	5%	1/10W
R7054	1-216-295-11	SHORT	0		
R7055	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R7056	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R7058	1-249-429-11	CARBON	10K	5%	1/4W
R7059	1-249-385-11	CARBON	2.2	5%	1/4W
R7060	1-249-385-11	CARBON	2.2	5%	1/4W
R7061	1-216-295-11	SHORT	0		
R7063	1-216-689-11	RES-CHIP	39K	5%	1/10W
R7064	1-216-049-11	RES-CHIP	1K	5%	1/10W
R7065	1-216-041-00	RES-CHIP	470	5%	1/10W
R7067	1-216-049-11	RES-CHIP	1K	5%	1/10W
R7068	1-216-041-00	RES-CHIP	470	5%	1/10W
R7070	1-216-689-11	RES-CHIP	39K	5%	1/10W
R7071	1-216-121-11	RES-CHIP	1M	5%	1/10W
R7083	1-249-429-11	CARBON	10K	5%	1/4W
R7086	1-216-295-11	SHORT	0		
R7088	1-216-295-11	SHORT	0		
R7090	1-216-089-11	RES-CHIP	47K	5%	1/10W
R7091	1-216-081-00	RES-CHIP	22K	5%	1/10W
R7092	1-216-025-11	RES-CHIP	100	5%	1/10W
R7093	1-216-025-11	RES-CHIP	100	5%	1/10W
R7094	1-216-081-00	RES-CHIP	22K	5%	1/10W
R7095	1-216-089-11	RES-CHIP	47K	5%	1/10W
R7096	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R7097	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R7098	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R7099	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R7100	1-216-081-00	RES-CHIP	22K	5%	1/10W
R7101	1-216-081-00	RES-CHIP	22K	5%	1/10W
R7103	1-216-049-11	RES-CHIP	1K	5%	1/10W
R7104	1-216-295-11	SHORT	0		

RELAY

REF.NO.	PART NO.	DESCRIPTION
RY6001⚠	1-755-389-11	RELAY (AC POWER)

TRANSFORMER

REF.NO.	PART NO.	DESCRIPTION
T6001⚠	1-433-404-11	TRANSFORMER, LINE FILTER
T6002⚠	1-435-675-11	TRANSFORMER, STANDBY (KV-32XBR400/36XBR400/38DRC1/36XBR400H only)
T6002⚠	1-435-676-11	TRANSFORMER, STANDBY (KV-38DRC1C only)
T6003	1-435-577-11	TRANSFORMER, CONVERTER (PIT)

THERMISTOR

REF.NO.	PART NO.	DESCRIPTION
TH6002⚠	1-803-970-11	THERMISTOR, POSITIVE (KV-32XBR400/36XBR400/38DRC1/36XBR400H only)
TH6002⚠	1-803-540-11	THERMISTOR (KV-38DRC1C only)

TUNER

REF.NO.	PART NO.	DESCRIPTION
TU001⚠	8-598-501-30	TUNER, FSS BTF-FA402
TU002⚠	8-598-542-20	TUNER, FSS BTF-WA412

VARISTOR

REF.NO.	PART NO.	DESCRIPTION
VD6001⚠	1-801-074-11	VARISTOR ERZV10D271 (KV-32XBR400/36XBR400/38DRC1/36XBR400H only)
VD6001⚠	1-803-587-11	VARISTOR ENE471D-14A (KV-38DRC1C only)

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A C

CRYSTAL

REF.NO.	PART NO.	DESCRIPTION	REMARK
X201	1-760-895-21	VIBRATOR, CERAMIC CHIP	
X702	1-781-931-21	VIBRATOR, CRYSTAL	

C

REF.NO.	PART NO.	DESCRIPTION	REMARK
*	**A-1332-075-A**	**C BOARD, MOUNTED**	
	7-682-647-09	SCREW +PS 3X6	

CAPACITOR

REF.NO.	PART NO.	DESCRIPTION	REMARK
C9001	1-126-940-11	ELECT	330µF 20% 25V
C9002	1-163-087-00	CERAMIC CHIP	4pF 0.25pF 50V
C9003	1-163-087-00	CERAMIC CHIP	4pF 0.25pF 50V
C9004	1-162-114-00	CERAMIC CHIP	.0047µF 2KV
C9005	1-163-087-00	CERAMIC CHIP	4pF 0.25pF 50V
C9006	1-163-087-00	CERAMIC CHIP	4pF 0.25pF 50V
C9007	1-163-087-00	CERAMIC CHIP	4pF 0.25pF 50V
C9008	1-163-087-00	CERAMIC CHIP	4pF 0.25pF 50V
C9009	1-163-087-00	CERAMIC CHIP	4pF 0.25pF 50V
C9010	1-163-087-00	CERAMIC CHIP	4pF 0.25pF 50V
C9011	1-161-830-00	CERAMIC CHIP	.0047µF 500V
C9012	1-161-830-00	CERAMIC CHIP	.0047µF 500V
C9013	1-163-035-00	CERAMIC CHIP	0.047µF 50V
C9014	1-161-830-00	CERAMIC CHIP	.0047µF 500V
C9015	1-163-087-00	CERAMIC CHIP	4pF 0.25pF 50V
C9018	1-107-961-91	ELECT	10µF 20% 250V
C9019	1-163-035-00	CERAMIC CHIP	0.047µF 50V
C9020	1-107-961-91	ELECT	10µF 20% 250V
C9021	1-107-961-91	ELECT	10µF 20% 250V
C9022	1-101-004-00	CERAMIC CHIP	0.01µF 50V
C9023	1-101-004-00	CERAMIC CHIP	0.01µF 50V
C9024	1-163-035-00	CERAMIC CHIP	0.047µF 50V
C9025	1-104-653-11	ELECT	220µF 20% 16V
C9026	1-163-035-00	CERAMIC CHIP	0.047µF 50V
C9027	1-101-004-00	CERAMIC CHIP	0.01µF 50V
C9028	1-163-017-00	CERAMIC CHIP	.0047µF 10% 50V
C9029	1-163-017-00	CERAMIC CHIP	.0047µF 10% 50V
C9030	1-163-017-00	CERAMIC CHIP	.0047µF 10% 50V
C9031	1-162-116-00	CERAMIC CHIP	680pF 10% 2KV
C9032	1-162-116-00	CERAMIC CHIP	680pF 10% 2KV
C9033	1-107-662-11	ELECT	22µF 20% 250V
C9035	1-126-933-11	ELECT	100µF 20% 16V
C9036	1-126-964-11	ELECT	10µF 20% 50V
C9037	1-126-961-11	ELECT	2.2µF 20% 50V
C9038	1-126-963-11	ELECT	4.7µF 20% 50V
C9042	1-126-940-11	ELECT	330µF 20% 25V
C9046	1-126-933-11	ELECT	100µF 20% 16V
C9047	1-163-021-91	CERAMIC CHIP	0.01µF 10% 50V

CONNECTOR

REF.NO.	PART NO.	DESCRIPTION	REMARK
*CN9001	1-764-333-11	PLUG, CONNECTOR	10P
*CN9002	1-766-242-11	PIN, CONNECTOR (PC BOARD)	4P
CN9003	1-695-915-11	TAB (CONTACT)	
CN9004	1-695-915-11	TAB (CONTACT)	

DIODE

REF.NO.	PART NO.	DESCRIPTION	REMARK
D9001	8-719-991-33	DIODE 1SS133T-77	
D9002	8-719-400-75	DIODE MA3091-TX	
D9003	8-719-991-33	DIODE 1SS133T-77	
D9005	8-719-073-01	DIODE MA111-TX	
D9006	8-719-051-85	DIODE HSS83TD	
D9007	8-719-051-85	DIODE HSS83TD	
D9008	8-719-051-85	DIODE HSS83TD	
D9009	8-719-908-03	DIODE GP08DPKG23	
D9010	8-719-110-17	DIODE MTZJ-T-77-10	
D9013	8-719-991-33	DIODE 1SS133T-77	
D9014	8-719-991-33	DIODE 1SS133T-77	
D9015	8-719-991-33	DIODE 1SS133T-77	
D9016	8-719-991-33	DIODE 1SS133T-77	
D9017	8-719-991-33	DIODE 1SS133T-77	

IC

REF.NO.	PART NO.	DESCRIPTION	REMARK
IC9001	8-759-360-83	IC TDA6111Q/N4	
IC9002	8-759-360-83	IC TDA6111Q/N4	
IC9003	8-759-360-83	IC TDA6111Q/N4	

JACK

REF.NO.	PART NO.	DESCRIPTION	REMARK
J9001 ⚠	1-451-470-21	SOCKET, CRT	

COIL

REF.NO.	PART NO.	DESCRIPTION	REMARK
L9002	1-408-591-11	INDUCTOR	1µH
L9003	1-408-591-11	INDUCTOR	1µH
L9004	1-408-591-11	INDUCTOR	1µH
L9005	1-406-666-21	INDUCTOR	150µH
L9006	1-412-525-31	INDUCTOR	10µH

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une1 piece portant le numero specifie.

TRANSISTOR

REF.NO.	PART NO.	DESCRIPTION	REMARK
Q9001	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q9002	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA	
Q9003	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q9004	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q9005	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q9008	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA	
Q9009	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q9010	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q9011	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q9012	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA	
Q9014	8-729-823-81	TRANSISTOR 2SC4632LS-CB7	

RESISTOR

REF.NO.	PART NO.	DESCRIPTION			REMARK
R9001	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
R9004	1-249-428-11	CARBON	8.2K	5%	1/4W
R9005	1-249-421-11	CARBON	2.2K	5%	1/4W
R9006	1-249-429-11	CARBON	10K	5%	1/4W
R9007	1-208-789-11	METAL CHIP	2K	0.50%	1/10W
R9008	1-216-085-00	RES-CHIP	33K	5%	1/10W
R9009	1-249-429-11	CARBON	10K	5%	1/4W
R9010	1-249-429-11	CARBON	10K	5%	1/4W
R9012	1-249-417-11	CARBON	1K	5%	1/4W
R9013	1-216-049-11	RES-CHIP	1K	5%	1/10W
R9014	1-249-409-11	CARBON	220	5%	1/4W
R9015	1-249-409-11	CARBON	220	5%	1/4W
R9016	1-249-409-11	CARBON	220	5%	1/4W
R9018	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R9019	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
R9026	1-208-789-11	METAL CHIP	2K	0.50%	1/10W
R9031	1-208-789-11	METAL CHIP	2K	0.50%	1/10W
R9033	1-215-447-00	METAL CHIP	12K	1%	1/4W
R9034	1-215-439-00	METAL CHIP	5.6K	1%	1/4W
R9035	1-208-790-11	METAL CHIP	2.2K	0.50%	1/10W
R9036	1-216-049-11	RES-CHIP	1K	5%	1/10W
R9037	1-240-233-71	METALOXIDE	100	5%	3W
R9038	1-208-790-11	METAL CHIP	2.2K	0.50%	1/10W
R9039	1-208-790-11	METAL CHIP	2.2K	0.50%	1/10W
R9041	1-216-049-11	RES-CHIP	1K	5%	1/10W
R9042	1-216-049-11	RES-CHIP	1K	5%	1/10W
R9043	1-240-233-71	METAL OXIDE	100	5%	3W
R9044	1-240-233-71	METAL OXIDE	100	5%	3W
R9047	1-202-557-00	SOLID	220	20%	1/2W
R9048	1-216-049-11	RES-CHIP	1K	5%	1/10W
R9049	1-216-049-11	RES-CHIP	1K	5%	1/10W
R9050	1-249-424-11	CARBON	3.9K	5%	1/4W
R9051	1-202-557-00	SOLID	220	20%	1/2W
R9052	1-202-557-00	SOLID	220	20%	1/2W
R9053	1-249-424-11	CARBON	3.9K	5%	1/4W
R9054	1-249-424-11	CARBON	3.9K	5%	1/4W
R9055	1-260-126-81	CARBON	180K	5%	1/2W
R9056	1-202-549-00	SOLID	100	20%	1/2W
R9057	1-202-847-00	SOLID	560K	20%	1/2W
R9059	1-202-818-00	SOLID	1K	20%	1/2W
R9061	1-202-549-00	SOLID	100	20%	1/2W
R9062	1-260-123-11	CARBON	100K	5%	1/2W
R9063	1-260-123-11	CARBON	100K	5%	1/2W
R9064	1-260-126-81	CARBON	180K	5%	1/2W
R9065	1-249-425-11	CARBON	4.7K	5%	1/4W
R9067	1-219-769-11	CARBON	3.3M	5%	1/2W
R9068	1-216-101-00	RES-CHIP	150K	5%	1/10W
R9070	1-249-411-11	CARBON	330	5%	1/4W
R9071	1-249-411-11	CARBON	330	5%	1/4W
R9072	1-249-411-11	CARBON	330	5%	1/4W
R9073	1-216-049-11	RES-CHIP	1K	5%	1/10W
R9076	1-219-769-11	CARBON	3.3M	5%	1/2W
R9077	1-249-417-11	CARBON	1K	5%	1/4W
R9078	1-249-427-11	CARBON	6.8K	5%	1/4W
R9079	1-249-426-11	CARBON	5.6K	5%	1/4W
R9081	1-247-843-11	CARBON	3.3K	5%	1/4W
R9083	1-249-436-11	CARBON	39K	5%	1/4W
R9084	1-260-126-81	CARBON	180K	5%	1/2W
R9085	1-260-126-81	CARBON	180K	5%	1/2W
R9089	1-215-445-00	METAL CHIP	10K	1%	1/4W
R9091	1-215-429-00	METAL CHIP	2.2K	1%	1/4W

VARIABLE RESISTOR

REF.NO.	PART NO.	DESCRIPTION	REMARK
RV9001⚠	1-241-714-11	RES, ADJ, METAL CHIP FILM	110M
RV9002	1-241-788-11	RES, ADJ, CARBON	100K

D

REF.NO.	PART NO.	DESCRIPTION	REMARK
*	**A-1346-947-A**	**D BOARD, COMPLETE (KV-32XBR400 only)**	
*	**A-1346-948-A**	**D BOARD, COMPLETE (KV-36XBR400/38DRC1/36XBR400H only)**	
*	**A-1346-956-A**	**D BOARD, COMPLETE (KV-38DRC1C only)**	

The high voltage leads associated with the FBT on this board are not included and must be ordered separately. Order the following leads when requesting this D Board:

PART NO.	DESCRIPTION
1-251-715-22	CAP ASSY, HIGH-VOLTAGE
1-900-805-19	WIRE ASSY, FOCUS HV
3-710-578-01	COVER, VOLUME, 6 MOLD
4-382-854-01	SCREW (M3X8), P, SW (+)
4-382-854-21	SCREW (M3X14), P, SW (+)

CAPACITOR

REF.NO.	PART NO.	DESCRIPTION			REMARK
C5001	1-164-161-11	CERAMIC CHIP	0.0022µF	10%	50V
C5002	1-106-383-00	MYLAR	0.047µF	10%	200V
C5004	1-106-383-00	MYLAR	0.047µF	10%	200V
C5005	1-126-235-11	ELECT	100µF	20%	6.3V
C5006	1-126-964-11	ELECT	10µF	20%	50V
C5007	1-126-941-11	ELECT	470µF	20%	25V
C5008	1-126-940-11	ELECT	330µF	20%	25V
C5009	1-126-941-11	ELECT	470µF	20%	25V
C5010	1-163-037-11	CERAMIC CHIP	0.022µF	10%	50V
C5011	1-107-641-11	ELECT	220µF	20%	160V
C5012	1-163-017-00	CERAMIC CHIP	.0047µF	10%	50V
C5013	1-164-161-11	CERAMIC CHIP	0.0022µF	10%	50V
C5014	1-163-037-11	CERAMIC CHIP	0.022µF	10%	50V
C5015	1-107-884-11	ELECT	1000µF	20%	16V
C5016	1-136-171-00	FILM	0.33µF	5%	50V
C5017	1-115-185-11	CERAMIC CHIP	0.033µF	10%	50V
C5018	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C5019	1-126-968-11	ELECT	100µF	20%	50V
C5020	1-126-767-11	ELECT	1000µF	20%	16V
C5021	1-163-133-00	CERAMIC CHIP	470pF	5%	50V
C5022	1-137-368-11	MYLAR	.0047µF	5%	50V
C5023	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C5024	1-102-038-00	CERAMIC CHIP	0.001µF		500V
C5025	1-130-471-00	MYLAR	0.001µF	5%	50V
C5026	1-107-655-11	ELECT	47µF	20%	250V
C5027	1-126-963-11	ELECT	4.7µF	20%	50V
C5028	1-126-963-11	ELECT	4.7µF	20%	50V
C5030	1-136-153-00	FILM	0.01µF	5%	50V
C5031	1-163-011-11	CERAMIC CHIP	0.0015µF	10%	50V
C5032	1-104-760-11	CERAMIC CHIP	0.047µF	10%	50V
C5033	1-136-165-00	FILM	0.1µF	5%	50V
C5034	1-162-114-00	CERAMIC CHIP	.0047µF		2KV
C5035	1-126-933-11	ELECT	100µF	20%	16V
C5036	1-126-941-11	ELECT	470µF	20%	25V
C5037	1-107-670-11	ELECT	10µF	20%	400V
C5038	1-104-664-11	ELECT	47µF	20%	16V
C5040	1-126-935-11	ELECT	470µF	20%	16V
C5041	1-126-935-11	ELECT	470µF	20%	16V
C5043	1-126-767-11	ELECT	1000µF	20%	16V
C5044	1-165-319-11	CERAMIC CHIP	0.1µF		50V
C5045	1-165-319-11	CERAMIC CHIP	0.1µF		50V
C5046	1-163-025-11	CERAMIC CHIP	0.001µF		50V
C5047	1-163-025-11	CERAMIC CHIP	0.001µF		50V
C5049	1-163-009-11	CERAMIC CHIP	0.001µF	10%	50V
C5050	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C5051	1-115-339-11	CERAMIC CHIP	0.1µF	10%	50V
C5052	1-115-339-11	CERAMIC CHIP	0.1µF	10%	50V
C5053	1-107-372-11	MYLAR	0.22µF	10%	200V
C5056	1-162-318-11	CERAMIC CHIP	0.001µF	10%	500V
C5057	1-162-134-11	CERAMIC CHIP	470pF	10%	2KV
C5058	1-162-116-00	CERAMIC CHIP	680pF	10%	2KV
C5059	1-162-116-00	CERAMIC CHIP	680pF	10%	2KV
C5060	1-137-417-11	MYLAR	.0047µF	10%	200V
C5061	1-117-839-11	FILM	9100pF	3%	1.5KV
C5063	1-117-839-11	FILM	9100pF	3%	1.5KV
C5064	1-115-520-11	FILM	0.68µF	5%	250V
C5065	1-107-506-11	FILM	0.68µF	3%	400V
C5066	1-109-921-11	CERAMIC CHIP	0.0015µF	10%	500V
C5069	1-115-339-11	CERAMIC CHIP	0.1µF	10%	50V
C5070	1-115-339-11	CERAMIC CHIP	0.1µF	10%	50V
C5071	1-115-339-11	CERAMIC CHIP	0.1µF	10%	50V
C5072	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C5073	1-164-161-11	CERAMIC CHIP	0.0022µF	10%	50V
C5075	1-115-339-11	CERAMIC CHIP	0.1µF	10%	50V
C5076	1-115-339-11	CERAMIC CHIP	0.1µF	10%	50V
C5077	1-115-339-11	CERAMIC CHIP	0.1µF	10%	50V
C5079	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C5102	1-107-888-11	ELECT	47µF	20%	25V
C5501	1-107-888-11	ELECT	47µF	20%	25V
C5502	1-126-941-11	ELECT	470µF	20%	25V
C5503	1-104-665-11	ELECT	100µF	20%	25V
C5504	1-104-664-11	ELECT	47µF	20%	16V
C5505	1-126-964-11	ELECT	10µF	20%	50V
C5506	1-126-963-11	ELECT	4.7µF	20%	50V
C5507	1-163-141-00	CERAMIC CHIP	0.001µF	5%	50V
C5508	1-163-031-11	CERAMIC CHIP	0.01µF		50V
C5509	1-163-263-11	CERAMIC CHIP	330pF	5%	50V
C5511	1-126-933-11	ELECT	100µF	20%	16V
C5514	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V

D

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REF.NO.	PART NO.	DESCRIPTION	REMARK		
C5518	1-129-709-61	FILM	0.0039µF	5%	630V
C5519	1-104-760-11	CERAMIC CHIP	0.047µF	10%	50V
C5522	1-163-275-11	CERAMIC CHIP	0.001µF	5%	50V
C5531	1-136-165-00	FILM	0.1µF	5%	50V
C5533	1-137-366-11	MYLAR	0.0022µF	5%	50V
C5542	1-164-182-11	CERAMIC CHIP	0.0033µF	10%	50V
C5548	1-137-194-81	FILM	0.47µF	5%	50V
C5550	1-129-716-00	FILM	0.015µF	5%	200V
C5576	1-104-666-11	ELECT	220µF	20%	25V
C5577	1-104-666-11	ELECT	220µF	20%	25V
C5587	1-104-760-11	CERAMIC CHIP	0.047µF	10%	50V
C5588	1-136-153-00	FILM	0.01µF	5%	50V
C5590	1-163-263-11	CERAMIC CHIP	330pF	5%	50V
C5592	1-115-339-11	CERAMIC CHIP	0.1µF	10%	50V
C5594	1-136-165-00	FILM	0.1µF	5%	50V
C5596	1-126-960-11	ELECT	1µF	20%	50V
C5598	1-104-664-11	ELECT	47µF	20%	16V
C5600	1-104-664-11	ELECT	47µF	20%	16V
C5601	1-136-165-00	FILM	0.1µF	5%	50V
C5602	1-104-664-11	ELECT	47µF	20%	16V
C5603	1-163-017-00	CERAMIC CHIP	.0047µF	10%	50V
C5605	1-136-177-00	FILM	1µF	5%	50V
C5607	1-115-185-11	CERAMIC CHIP	0.033µF	10%	50V
C5609	1-104-665-11	ELECT	100µF	20%	25V
C5610	1-126-935-11	ELECT	470µF	20%	16V
C5611	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C5612	1-126-964-11	ELECT	10µF	20%	50V
C5613	1-115-185-11	CERAMIC CHIP	0.033µF	10%	50V
C5614	1-126-964-11	ELECT	10µF	20%	50V
C5616	1-136-165-00	FILM	0.1µF	5%	50V
C5617	1-104-664-11	ELECT	47µF	20%	16V
C5618	1-136-171-00	FILM	0.33µF	5%	50V
C5619	1-163-127-00	CERAMIC CHIP	270pF	5%	50V
C5621	1-136-165-00	FILM	0.1µF	5%	50V
C5623	1-126-933-11	ELECT	100µF	20%	16V
C5625	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C5628	1-126-933-11	ELECT	100µF	20%	16V
C6503	1-131-940-11	ELECT	1200µF	20%	250V
C6504	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C6507	1-126-967-11	ELECT	47µF	20%	50V
C6508	1-104-664-11	ELECT	47µF	20%	25V
C6510	1-130-495-00	MYLAR	0.1µF	5%	50V
C6511	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C6516	1-163-009-11	CERAMIC CHIP	0.001µF	10%	50V
C6517	1-126-963-11	ELECT	4.7µF	20%	50V
C6518	1-136-479-11	FILM	0.001µF	2%	50V
C6519	1-126-964-11	ELECT	10µF	20%	50V
C6525	1-164-143-11	CERAMIC CHIP	0.001µF	10%	1KV
C6526	1-164-143-11	CERAMIC CHIP	0.001µF	10%	1KV
C6532	1-135-998-21	FILM	56000pF	3%	800V
C6544	1-107-855-12	ELECT(BLOCK)	330µF		160V
C6545	1-126-943-11	ELECT	2200µF	20%	25V
C6546	1-128-548-11	ELECT	4700µF	20%	25V
C6547	1-113-610-11	ELECT(BLOCK)	220µF	20%	250V
C6548	1-128-549-11	ELECT	3300µF	20%	35V
C6551	1-163-037-11	CERAMIC CHIP	0.022µF	10%	50V
C6561	1-126-960-11	ELECT	1µF	20%	50V
C6584⚠	1-136-344-11	MYLAR	0.047µF	20%	300V
C6585⚠	1-119-899-51	CERAMIC CHIP	1000pF	10%	250V
C6586	1-113-924-11	CERAMIC CHIP	.0047µF	20%	125V
C6587	1-113-924-11	CERAMIC CHIP	.0047µF	20%	125V
C6588	1-113-924-11	CERAMIC CHIP	.0047µF	20%	125V
C6589	1-113-924-11	CERAMIC CHIP	.0047µF	20%	125V
C6590	1-131-940-11	ELECT	1200µF	20%	250V
C6591⚠	1-119-899-51	CERAMIC CHIP	1000pF	10%	250V
C6594	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C6595	1-104-665-11	ELECT	100µF	20%	25V
C6596	1-126-960-11	ELECT	1µF	20%	50V
C8002	1-136-169-00	FILM	0.22µF	5%	50V
C8004	1-104-665-11	ELECT	100µF	20%	10V
C8005	1-104-664-11	ELECT	47µF	20%	25V
C8006	1-126-960-11	ELECT	1µF	20%	50V
C8007	1-137-150-11	MYLAR	0.01µF	5%	50V
C8009	1-126-964-11	ELECT	10µF	20%	50V
C8011	1-126-961-11	ELECT	2.2µF	20%	50V
C8012	1-126-966-11	ELECT	33µF	20%	50V
C8013	1-126-964-11	ELECT	10µF	20%	50V
C8014	1-126-964-11	ELECT	10µF	20%	50V
C8015	1-126-966-11	ELECT	33µF	20%	50V
C8016	1-130-495-00	MYLAR	0.1µF	5%	50V
C8017	1-126-964-11	ELECT	10µF	20%	50V
C8018	1-126-964-11	ELECT	10µF	20%	50V
C8019	1-104-665-11	ELECT	100µF	20%	10V
C8020	1-136-103-00	FILM	0.1µF	5%	200V
C8021	1-137-150-11	MYLAR	0.01µF	5%	50V
C8022	1-126-933-11	ELECT	100µF	20%	16V
C8023	1-113-611-11	ELECT(BLOCK)	820µF	20%	250V
C8024	1-126-967-11	ELECT	47µF	20%	50V
C8025	1-104-664-11	ELECT	47µF	20%	25V
C8027	1-130-495-00	MYLAR	0.1µF	5%	50V
C8028	1-164-161-11	CERAMIC CHIP	0.0022µF	10%	50V
C8030	1-163-809-11	CERAMIC CHIP	0.047µF	10%	25V
C8031	1-128-551-11	ELECT	22µF	20%	25V
C8032	1-136-813-11	FILM	680pF	2%	50V
C8033	1-126-964-11	ELECT	10µF	20%	50V
C8035	1-125-969-91	CERAMIC CHIP	680pF	10%	1KV
C8036	1-125-969-91	CERAMIC CHIP	680pF	10%	1KV
C8037	1-135-946-21	FILM	47000pF	3%	800V
C8039	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C8040	1-126-969-11	ELECT	220µF	20%	50V

REF.NO.	PART NO.	DESCRIPTION			REMARK
C8041	1-137-194-81	FILM	0.47µF	5%	50V
C8042	1-136-103-00	FILM	0.1µF	5%	200V
C8045	1-130-471-00	MYLAR	0.001µF	5%	50V
C8046	1-162-131-11	CERAMIC CHIP	220pF	10%	2KV
C8047	1-107-444-11	CERAMIC CHIP	100pF	10%	2KV
C8048	1-130-495-00	MYLAR	0.1µF	5%	50V
C8050	1-129-718-61	FILM	0.022µF	5%	630V
C8051	1-126-964-11	ELECT	10µF	20%	50V
C8053	1-162-117-00	CERAMIC CHIP	100pF	10%	500V
C8054	1-102-244-00	CERAMIC CHIP	220pF	10%	500V
C8055	1-136-535-61	FILM	0.0018µF	5%	630V
C8056	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C8058	1-137-194-81	FILM	0.47µF	5%	50V
C8059	1-104-664-11	ELECT	47µF	20%	10V
C8060	1-107-635-11	ELECT	4.7µF	20%	160V
C8063	1-136-203-11	MYLAR	0.01µF	10%	630V
C8064	1-137-366-11	MYLAR	0.0022µF	5%	50V

CONNECTOR

REF.NO.	PART NO.	DESCRIPTION	REMARK
*CN5002	1-580-798-11	CONNECTOR PIN (DY)	6P
*CN5003	1-766-242-11	PIN, CONNECTOR (PC BOARD)	4P
*CN5501	1-779-889-11	CONNECTOR, BOARD TO BOARD	8P
*CN5503	1-779-890-11	CONNECTOR, BOARD TO BOARD	10P
*CN5505	1-779-890-11	CONNECTOR, BOARD TO BOARD	10P
CN5506	1-764-812-11	CONNECTOR, BOARD TO BOARD	11P
*CN5509	1-564-515-11	PLUG, CONNECTOR	12P
*CN5510	1-564-506-11	PLUG, CONNECTOR	3P
*CN6501	1-766-176-11	PIN, CONNECTOR (PC BOARD)	6P
*CN6502	1-766-240-11	PIN, CONNECTOR (PC BOARD)	2P
*CN6503	1-564-511-11	PLUG, CONNECTOR	8P
*CN6504	1-779-889-11	CONNECTOR, BOARD TO BOARD	8P
*CN6505	1-779-889-11	CONNECTOR, BOARD TO BOARD	8P
*CN6506	1-779-889-11	CONNECTOR, BOARD TO BOARD	8P

DIODE

REF.NO.	PART NO.	DESCRIPTION	REMARK
D5001	8-719-109-85	DIODE MTZJ-T-77-5.1B	
D5002	8-719-908-03	DIODE GP08DPKG23	
D5003	8-719-920-67	DIODE ERC91-02E	
D5004	8-719-158-49	DIODE UDZ-TE-17-12B	
D5005	8-719-073-01	DIODE MA111-TX	
D5006	8-719-109-72	DIODE MTZJ-T-77-3.9B	
D5007	8-719-109-50	DIODE MTZJ-T-77-2.0A	
D5008	8-719-073-01	DIODE MA111-TX	
D5009	8-719-073-01	DIODE MA111-TX	
D5010	8-719-073-01	DIODE MA111-TX	
D5011	8-719-109-63	DIODE MTZJ-T-77-3.0B	
D5012	8-719-018-82	DIODE RGP02-20EL-6394	
D5013	8-719-302-43	DIODE RGP10GPKG23	
D5014	8-719-510-37	DIODE D5LC20U	
D5015	8-719-302-43	DIODE RGP10GPKG23	
D5016	8-719-920-67	DIODE ERC91-02E	
D5017	8-719-920-67	DIODE ERC91-02E	
D5018	8-719-110-41	DIODE MTZJ-T-77-15B	
D5019	8-719-073-01	DIODE MA111-TX	
D5021	8-719-073-01	DIODE MA111-TX	
D5023	8-719-061-21	DIODE PG124S15	
D5024	8-719-510-02	DIODE D1NS4-TR	
D5025	8-719-510-02	DIODE D1NS4-TR	
D5026	8-719-073-01	DIODE MA111-TX	
D5027	8-719-073-01	DIODE MA111-TX	
D5028	8-719-073-01	DIODE MA111-TX	
D5029	8-719-073-01	DIODE MA111-TX	
D5031	8-719-977-28	DIODE UDZS-TE17-10B	
D5032	8-719-073-01	DIODE MA111-TX	
D5501	8-719-073-01	DIODE MA111-TX	
D5502	8-719-073-01	DIODE MA111-TX	
D5503	8-719-073-01	DIODE MA111-TX	
D5505	8-719-800-76	DIODE MA153-TX	
D5506	8-719-073-01	DIODE MA111-TX	
D5507	8-719-800-76	DIODE MA153-TX	
D5513	8-719-991-33	DIODE 1SS133T-77	
D5514	8-719-063-70	DIODE D1NL20U-TA2	
D5515	8-719-063-70	DIODE D1NL20U-TA2	
D5522	8-719-923-78	DIODE MTZJ-T-77-12	
D5523	8-719-923-78	DIODE MTZJ-T-77-12	
D6501	8-719-073-01	DIODE MA111-TX	
D6502	8-719-979-64	DIODE µF4005PKG23	
D6507	1-216-295-11	SHORT 0	
D6508	8-719-982-27	DIODE MTZJ-T-77-33C	
D6509	8-719-068-00	DIODE ERC04-06SE (KV-32XBR400/36XBR400/38DRC1/36XBR400H only)	
D6510	8-719-068-00	DIODE ERC04-06SE (KV-32XBR400/36XBR400/38DRC1/36XBR400H only)	
D6513	8-719-500-71	DIODE D8LC40F	
D6514	8-719-060-89	DIODE D4SBS6-F	
D6515	8-719-060-90	DIODE S2L60F	
D6516	8-719-060-89	DIODE D4SBS6-F	
D6517	8-719-060-90	DIODE S2L60F	
D6522	8-719-073-01	DIODE MA111-TX	
D6530	8-719-022-99	DIODE D6SB60L	
D6531	8-719-073-01	DIODE MA111-TX	
D6532	8-719-948-45	DIODE ERA22-08TP3	
D6533	8-719-073-01	DIODE MA111-TX	
D6537	8-719-073-01	DIODE MA111-TX	
D8002	8-719-073-01	DIODE MA111-TX	
D8003	8-719-073-01	DIODE MA111-TX	
D8004	8-719-109-85	DIODE MTZJ-T-77-5.1B	
D8005	8-719-073-01	DIODE MA111-TX	

REF.NO.	PART NO.	DESCRIPTION	REMARK
D8006	8-719-921-89	DIODE MTZJ-T-77-13C	
D8007	8-719-073-01	DIODE MA111-TX	
D8009	8-719-073-01	DIODE MA111-TX	
D8010	8-719-052-90	DIODE D1NL40-TA2	
D8011	8-719-923-86	DIODE MTZJ-T-77-15	
D8012	8-719-923-86	DIODE MTZJ-T-77-15	
D8013	8-719-063-70	DIODE D1NL20U-TA2	
D8014	8-719-302-43	DIODE RGP10GPKG23	
D8016	8-719-948-45	DIODE ERA22-08TP3	
D8017	8-719-948-45	DIODE ERA22-08TP3	
D8018	8-719-052-90	DIODE D1NL40-TA2	
D8019	8-719-110-41	DIODE MTZJ-T-77-15B	
D8020	8-719-073-01	DIODE MA111-TX	
D8021	8-719-073-01	DIODE MA111-TX	
D8022	8-719-073-01	DIODE MA111-TX	
D8025	8-719-982-26	DIODE MTZJ-T-77-33B	
D8026	8-719-073-01	DIODE MA111-TX	
D8027	8-719-073-01	DIODE MA111-TX	
D8028	8-719-991-33	DIODE 1SS133T-77	

FERRITE BEAD

REF.NO.	PART NO.	DESCRIPTION	REMARK
FB5001	1-410-397-21	FERRITE 1.1μH	
FB5002	1-543-298-11	FERRITE 0μH	
FB6501	1-410-397-21	FERRITE 1.1μH	
FB6502	1-410-396-41	FERRITE 0.45μH	
FB6504	1-410-397-21	FERRITE 1.1μH	
FB6505	1-412-911-11	FERRITE 0μH	
FB6506	1-412-911-11	FERRITE 0μH	
FB6508	1-410-396-41	FERRITE 0.45μH	
FB6509	1-410-396-41	FERRITE 0.45μH	
FB8001	1-410-396-41	FERRITE 0.45μH	

IC

REF.NO.	PART NO.	DESCRIPTION	REMARK
IC5001	8-759-701-01	IC NJM2904M(TE2)	
IC5002	8-759-700-07	IC NJM2903M-TE2	
IC5003	8-759-518-68	IC PQ12RF21	
IC5004	8-759-192-71	IC STV9379	
IC5005	8-759-803-42	IC LA6500-FA	
IC5006	8-749-013-76	IC PQ6RD83B	
IC5007	8-759-981-61	IC NJM2901M-TE2	
IC5008	8-759-675-90	IC BA51W12ST-V5	
IC5501	8-759-575-71	IC M24C04-MN6T	
IC5502	8-759-981-61	IC NJM2901M-TE2	
IC5504	8-759-803-42	IC LA6500-FA	
IC5506	8-759-803-42	IC LA6500-FA	
IC5510	8-759-803-42	IC LA6500-FA	
IC5511	8-752-074-64	IC CXA2026AS	
IC5512	8-759-929-65	IC NJM79M12FA	
IC5513	8-759-595-52	IC CXA8070AP	
IC5514	8-759-803-42	IC LA6500-FA	
IC5515	8-749-016-08	IC STK390-910	
IC6501	8-759-670-30	IC MCZ3001D	
IC6503	8-749-012-13	IC DM-58	
IC6505	8-749-921-86	IC SE-140N	
IC8001	8-759-981-61	IC NJM2901M-TE2	
IC8002	8-759-670-30	IC MCZ3001D	
IC8003	8-759-198-31	IC UPC1093J-1-T	
IC8004	8-759-701-01	IC NJM2904M(TE2)	

CONDUCTOR

REF.NO.	PART NO.	DESCRIPTION	REMARK
JR5006	1-216-295-11	SHORT 0	
JR5007	1-216-295-11	SHORT 0	
JR5010	1-216-295-11	SHORT 0	
JR6501	1-216-295-11	SHORT 0	
JR8001	1-216-295-11	SHORT 0	
JR8002	1-216-295-11	SHORT 0	
JR8003	1-216-295-11	SHORT 0	
JR8004	1-216-295-11	SHORT 0	
JR8005	1-216-295-11	SHORT 0	
JR8006	1-216-295-11	SHORT 0	
JR8007	1-216-295-11	SHORT 0	
JR8050	1-216-295-11 (KV-32XBR400 only)	SHORT 0	
JR8051	1-216-295-11 (KV-36XBR400/38DRC1/36XBR400H only)	SHORT 0	
JR8052	1-216-295-11 (KV-38DRC1C only)	SHORT 0	

COIL

REF.NO.	PART NO.	DESCRIPTION	REMARK
L5001	1-406-665-11	INDUCTOR 100μH	
L5002	1-406-663-21	INDUCTOR 47μH	
L5003	1-406-892-21	INDUCTOR 4MH	
L5004	1-412-525-31	INDUCTOR 10μH	
L5005	1-419-181-11	COIL, HORIZONTAL LINEARITY	
L5504	1-406-989-21	INDUCTOR 10MH	
L5505	1-406-989-21	INDUCTOR 10MH	
L5601	1-408-612-31	INDUCTOR 56μH	
L6503	1-412-525-31	INDUCTOR 10μH	
L6504	1-412-525-31	INDUCTOR 10μH	
L6505	1-406-665-11	INDUCTOR 100μH	
L8001	1-406-670-11	INDUCTOR 680μH	
L8002	1-419-658-11	INDUCTOR 107μH	
L8005	1-406-674-11	INDUCTOR 3.3MH	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une1 piece portant le numero specifie.

D

PHOTO COUPLER

REF.NO.	PART NO.	DESCRIPTION	REMARK
PH6501	8-749-924-35	PHOTO COUPLER ON3171-R	
PH6502⚠	8-749-924-35	PHOTO COUPLER ON3171-R	
PH6503⚠	8-749-924-35	PHOTO COUPLER ON3171-R	
PH8001	8-749-924-35	PHOTO COUPLER ON3171-R	

IC LINK

REF.NO.	PART NO.	DESCRIPTION	REMARK
PS6501⚠	1-576-390-91	LINK, IC	
PS6502⚠	1-576-390-91	LINK, IC	

TRANSISTOR

REF.NO.	PART NO.	DESCRIPTION	REMARK
Q5001	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q5002	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q5003	8-729-015-28	TRANSISTOR IRFI9630G	
Q5004	8-729-019-57	TRANSISTOR 2SA1208S-TP	
Q5005	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q5006	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q5007	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q5008	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q5011	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q5012	8-729-119-80	TRANSISTOR 2SC2688-LK	
Q5013	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q5014	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q5015	8-729-119-80	TRANSISTOR 2SC2688-LK	
Q5016	8-729-119-80	TRANSISTOR 2SC2688-LK	
Q5017	8-729-119-80	TRANSISTOR 2SC2688-LK	
Q5018	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q5019	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q5020	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q5021	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q5022	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q5023	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q5026	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q5027	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q5028	8-729-322-27	TRANSISTOR 2SK2182	
Q5030	8-729-052-71	TRANSISTOR 2SC3997S-SONY-RA	
Q5031	8-729-053-24	TRANSISTOR 2SK3262-01MR	
Q5033	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q5034	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q5035	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q5036	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q5037	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q5501	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q5502	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q5503	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q5504	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q5505	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q5506	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q5507	8-729-931-45	TRANSISTOR IRF614	
Q5508	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q5509	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q6503	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q6506	8-729-052-32	TRANSISTOR IRFIB7N50A-LF31	
Q6507	8-729-052-32	TRANSISTOR IRFIB7N50A-LF31	
Q6520	8-729-019-57	TRANSISTOR 2SA1208S-TP	
Q6521	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA	
Q6522	8-729-119-76	TRANSISTOR 2SA1309A-QRSTA	
Q6524	8-729-119-76	TRANSISTOR 2SA1309A-QRSTA	
Q6526	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q6527	8-729-023-22	TRANSISTOR 2SD2114KT146	
Q6528	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q6529	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q6530	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q6531	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q6532	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q8001	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q8002	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q8003	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q8004	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q8007	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q8008	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q8009	8-729-200-17	TRANSISTOR 2SA1091O-TPE2	
Q8010	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q8013	8-729-044-42	TRANSISTOR IRFI644G-LF36	
Q8014	8-729-044-42	TRANSISTOR IRFI644G-LF36	
Q8015	8-729-119-80	TRANSISTOR 2SC2688-LK	
Q8016	8-729-045-65	TRANSISTOR 2SA1776TV2Q	
Q8018	8-729-043-95	TRANSISTOR 2SC3840K	
Q8019	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q8020	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q8022	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q8023	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	

RESISTOR

REF.NO.	PART NO.	DESCRIPTION	REMARK
R5001	1-216-001-00	RES-CHIP 10 5% 1/10W	
R5002	1-216-033-00	RES-CHIP 220 5% 1/10W	
R5003	1-216-073-00	RES-CHIP 10K 5% 1/10W	
R5004	1-216-099-00	RES-CHIP 120K 5% 1/10W	
R5005	1-216-033-00	RES-CHIP 220 5% 1/10W	
R5007	1-216-099-00	RES-CHIP 120K 5% 1/10W	
R5008	1-216-073-00	RES-CHIP 10K 5% 1/10W	
R5009	1-216-099-00	RES-CHIP 120K 5% 1/10W	
R5011	1-216-099-00	RES-CHIP 120K 5% 1/10W	
R5012	1-208-814-91	METAL CHIP 22K 0.50% 1/10W	

D

REF.NO.	PART NO.	DESCRIPTION			REMARK
R5013	1-216-393-00	METAL OXIDE	2.2	5%	3W
R5014	1-208-790-11	METAL CHIP	2.2K	0.50%	1/10W
R5016	1-208-832-11	METAL CHIP	120K	0.50%	1/10W
R5017	1-208-832-11	METAL CHIP	120K	0.50%	1/10W
R5018	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5019	1-249-429-11	CARBON	10K	5%	1/4W
R5020	1-208-800-11	METAL CHIP	5.6K	0.50%	1/10W
R5021	1-208-826-11	METAL CHIP	68K	0.50%	1/10W
R5022	1-208-816-11	METAL CHIP	27K	0.50%	1/10W
R5023	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5024	1-216-089-11	RES-CHIP	47K	5%	1/10W
R5025	1-208-800-11	METAL CHIP	5.6K	0.50%	1/10W
R5026	1-216-049-11	RES-CHIP	1K	5%	1/10W
R5027	1-208-826-11	METAL CHIP	68K	0.50%	1/10W
R5028	1-208-822-11	METAL CHIP	47K	0.50%	1/10W
R5029	1-208-798-11	METAL CHIP	4.7K	0.50%	1/10W
R5030	1-216-295-11	SHORT	0		
R5031	1-208-782-11	METAL CHIP	1K	0.50%	1/10W
R5033	1-216-025-11	RES-CHIP	100	5%	1/10W
R5036	1-216-085-00	RES-CHIP	33K	5%	1/10W
R5037	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R5038	1-216-075-00	RES-CHIP	12K	5%	1/10W
R5039	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5040	1-216-089-11	RES-CHIP	47K	5%	1/10W
R5041	1-249-383-11	CARBON	1.5	5%	1/4W
R5042	1-216-081-00	RES-CHIP	22K	5%	1/10W
R5043	1-208-798-11	METAL CHIP	4.7K	0.50%	1/10W
R5044	1-216-073-00	RES-CHIP	10K	5%	1/10W
R5045	1-216-073-00	RES-CHIP	10K	5%	1/10W
R5046	1-214-798-21	METAL CHIP	1.8	1%	1/2W
R5047	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R5048	1-208-802-11	METAL CHIP	6.8K	0.50%	1/10W
R5049	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R5050	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R5051	1-249-414-11	CARBON	560	5%	1/4W
R5052	1-214-796-00	METAL CHIP	1.5	1%	1/2W
R5053	1-215-890-11	METAL OXIDE	470	5%	2W
R5054	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R5055	1-216-073-00	RES-CHIP	10K	5%	1/10W
R5056	1-216-105-91	RES-CHIP	220K	5%	1/10W
R5057	1-216-073-00	RES-CHIP	10K	5%	1/10W
R5058	1-216-113-00	RES-CHIP	470K	5%	1/10W
R5059	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5063	1-208-813-11	METAL CHIP	20K	0.50%	1/10W
R5064	1-218-761-11	METAL CHIP	240K	0.50%	1/10W
R5065	1-218-761-11	METAL CHIP	240K	0.50%	1/10W
R5066	1-208-792-11	METAL CHIP	2.7K	0.50%	1/10W
R5067	1-208-794-11	METAL CHIP	3.3K	0.50%	1/10W
R5068	1-216-105-91	RES-CHIP	220K	5%	1/10W
R5069	1-216-113-00	RES-CHIP	470K	5%	1/10W
R5070	1-216-113-00	RES-CHIP	470K	5%	1/10W
R5071	1-208-810-11	METAL CHIP	15K	0.50%	1/10W
R5072	1-208-810-11	METAL CHIP	15K	0.50%	1/10W
R5073	1-208-830-11	METAL CHIP	100K	0.50%	1/10W
R5074	1-208-830-11	METAL CHIP	100K	0.50%	1/10W
R5075	1-208-830-11	METAL CHIP	100K	0.50%	1/10W
R5076	1-208-830-11	METAL CHIP	100K	0.50%	1/10W
R5077	1-208-816-11	METAL CHIP	27K	0.50%	1/10W
R5078	1-208-830-11	METAL CHIP	100K	0.50%	1/10W
R5079	1-208-810-11	METAL CHIP	15K	0.50%	1/10W
R5080	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5081	1-208-830-11	METAL CHIP	100K	0.50%	1/10W
R5082	1-208-806-11	METAL CHIP	10K	0.50%	1/10W
R5083	1-208-790-11	METAL CHIP	2.2K	0.50%	1/10W
R5084	1-216-073-00	RES-CHIP	10K	5%	1/10W
R5085	1-216-113-00	RES-CHIP	470K	5%	1/10W
R5086	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5087	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5088	1-216-049-11	RES-CHIP	1K	5%	1/10W
R5089	1-216-372-11	METAL OXIDE	1.8	5%	2W
R5090	1-216-372-11	METAL OXIDE	1.8	5%	2W
R5091	1-249-389-11	CARBON	4.7	5%	1/4W
R5092	1-216-049-11	RES-CHIP	1K	5%	1/10W
R5093	1-208-807-11	METAL CHIP	11K	0.50%	1/10W
R5094	1-215-869-11	METAL OXIDE	1K	5%	1W
R5095	1-249-443-11	CARBON	0.47	5%	1/4W
R5096	1-249-443-11	CARBON	0.47	5%	1/4W
R5097	1-249-380-11	CARBON	0.82	5%	1/4W
R5098	1-249-379-11	CARBON	0.68	5%	1/4W
R5101	1-208-798-11	METAL CHIP	4.7K	0.50%	1/10W
R5102	1-208-782-11	METAL CHIP	1K	0.50%	1/10W
R5103	1-208-790-11	METAL CHIP	2.2K	0.50%	1/10W
R5104	1-216-073-00	RES-CHIP	10K	5%	1/10W
R5105	1-216-089-11	RES-CHIP	47K	5%	1/10W
R5106	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5107	1-249-401-11	CARBON	47	5%	1/4W
R5108	1-208-819-11	METAL CHIP	36K	0.50%	1/10W
R5109	1-208-808-11	METAL CHIP	12K	0.50%	1/10W
R5110	1-249-401-11	CARBON	47	5%	1/4W
R5111	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5112	1-216-033-00	RES-CHIP	220	5%	1/10W
R5113	1-249-425-11	CARBON	4.7K	5%	1/4W
R5114	1-249-425-11	CARBON	4.7K	5%	1/4W
R5115	1-249-417-11	CARBON	1K	5%	1/4W
R5116	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5117	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
R5120	1-216-049-11	RES-CHIP	1K	5%	1/10W
R5121	1-216-073-00	RES-CHIP	10K	5%	1/10W
R5122	1-216-073-00	RES-CHIP	10K	5%	1/10W
R5123	1-216-295-11	SHORT	0		

REF.NO.	PART NO.	DESCRIPTION				REMARK
R5124	1-216-295-11	SHORT	0			
R5125	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	
R5126	1-216-025-11	RES-CHIP	100	5%	1/10W	
R5127	1-215-890-11	METAL OXIDE	470	5%	2W	
R5128	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	
R5129	1-216-025-11	RES-CHIP	100	5%	1/10W	
R5130	1-249-401-11	CARBON	47	5%	1/4W	
R5131	1-208-794-11	METAL CHIP	3.3K	0.50%	1/10W	
R5132	1-216-481-11	METAL OXIDE	1.2K	5%	3W	
R5133	1-216-481-11	METAL OXIDE	1.2K	5%	3W	
R5134	1-216-481-11	METAL OXIDE	1.2K	5%	3W	
R5135	1-216-481-11	METAL OXIDE	1.2K	5%	3W	
R5136	1-216-481-11	METAL OXIDE	1.2K	5%	3W	
R5137	1-216-481-11	METAL OXIDE	1.2K	5%	3W	
R5138	1-216-049-11	RES-CHIP	1K	5%	1/10W	
R5139	1-216-049-11	RES-CHIP	1K	5%	1/10W	
R5140	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	
R5141	1-215-915-11	METAL OXIDE	470	5%	3W	
R5142	1-216-386-11	METAL OXIDE	0.56	5%	3W	
R5143	1-216-385-11	METAL OXIDE	0.47	5%	3W	
R5144	1-216-385-11	METAL OXIDE	0.47	5%	3W	
R5145	1-215-880-00	METAL OXIDE	10	5%	2W	
R5146	1-216-089-11	RES-CHIP	47K	5%	1/10W	
R5147	1-208-794-11	METAL CHIP	3.3K	0.50%	1/10W	
R5148	1-215-865-11	METAL OXIDE	220	5%	1W	
R5149	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	
R5150	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	
R5151	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	
R5152	1-216-073-00	RES-CHIP	10K	5%	1/10W	
R5153	1-216-073-00	RES-CHIP	10K	5%	1/10W	
R5154	1-216-073-00	RES-CHIP	10K	5%	1/10W	
R5155	1-216-081-00	RES-CHIP	22K	5%	1/10W	
R5156	1-216-089-11	RES-CHIP	47K	5%	1/10W	
R5157	1-216-089-11	RES-CHIP	47K	5%	1/10W	
R5158	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	
R5159	1-216-025-11	RES-CHIP	100	5%	1/10W	
R5160	1-216-025-11	RES-CHIP	100	5%	1/10W	
R5161	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	
R5163	1-216-063-91	RES-CHIP	3.9K	5%	1/10W	
R5164	1-260-288-11	CARBON	0.47	5%	1/2W	
R5501	1-216-033-00	RES-CHIP	220	5%	1/10W	
R5502	1-216-295-11	SHORT	0			
R5503	1-216-017-91	RES-CHIP	47	5%	1/10W	
R5504	1-208-840-11	METAL CHIP	270K	0.50%	1/10W	
R5505	1-208-840-11	METAL CHIP	270K	0.50%	1/10W	
R5506	1-216-073-00	RES-CHIP	10K	5%	1/10W	
R5507	1-216-017-91	RES-CHIP	47	5%	1/10W	
R5508	1-216-025-11	RES-CHIP	100	5%	1/10W	
R5509	1-216-025-11	RES-CHIP	100	5%	1/10W	
R5510	1-216-025-11	RES-CHIP	100	5%	1/10W	

REF.NO.	PART NO.	DESCRIPTION				REMARK
R5511	1-216-295-11	SHORT	0			
R5512	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	
R5513	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	
R5514	1-216-295-11	SHORT	0			
R5516	1-208-792-11	METAL CHIP	2.7K	0.50%	1/10W	
R5518	1-208-822-11	METAL CHIP	47K	0.50%	1/10W	
R5519	1-208-822-11	METAL CHIP	47K	0.50%	1/10W	
R5520	1-208-816-11	METAL CHIP	27K	0.50%	1/10W	
R5521	1-216-073-00	RES-CHIP	10K	5%	1/10W	
R5522	1-216-073-00	RES-CHIP	10K	5%	1/10W	
R5523	1-208-822-11	METAL CHIP	47K	0.50%	1/10W	
R5525	1-208-806-11	METAL CHIP	10K	0.50%	1/10W	
R5526	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	
R5527	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	
R5528	1-216-081-00	RES-CHIP	22K	5%	1/10W	
R5529	1-216-073-00	RES-CHIP	10K	5%	1/10W	
R5530	1-216-025-11	RES-CHIP	100	5%	1/10W	
R5531	1-216-001-00	RES-CHIP	10	5%	1/10W	
R5532	1-216-001-00	RES-CHIP	10	5%	1/10W	
R5535	1-208-806-11	METAL CHIP	10K	0.50%	1/10W	
R5536	1-208-810-11	METAL CHIP	15K	0.50%	1/10W	
R5544	1-208-812-11	METAL CHIP	18K	0.50%	1/10W	
R5545	1-208-818-11	METAL CHIP	33K	0.50%	1/10W	
R5547	1-216-081-00	RES-CHIP	22K	5%	1/10W	
R5548	1-216-089-11	RES-CHIP	47K	5%	1/10W	
R5554	1-208-812-11	METAL CHIP	18K	0.50%	1/10W	
R5563	1-208-801-11	METAL CHIP	6.2K	0.50%	1/10W	
R5564	1-208-830-11	METAL CHIP	100K	0.50%	1/10W	
R5565	1-208-830-11	METAL CHIP	100K	0.50%	1/10W	
R5573	1-216-081-00	RES-CHIP	22K	5%	1/10W	
R5576	1-249-395-11	CARBON	15	5%	1/4W	
R5577	1-208-836-11	METAL CHIP	180K	0.50%	1/10W	
R5578	1-208-812-11	METAL CHIP	18K	0.50%	1/10W	
R5579	1-216-113-00	RES-CHIP	470K	5%	1/10W	
R5581	1-208-806-11	METAL CHIP	10K	0.50%	1/10W	
R5585	1-208-846-11	METAL CHIP	470K	0.50%	1/10W	
R5588	1-216-353-00	METAL OXIDE	2.2	5%	1W	
R5599	1-216-073-00	RES-CHIP	10K	5%	1/10W	
R5615	1-249-395-11	CARBON	15	5%	1/4W	
R5623	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	
R5645	1-216-089-11	RES-CHIP	47K	5%	1/10W	
R5647	1-208-758-11	METAL CHIP	100	0.50%	1/10W	
R5648	1-216-385-11	METAL OXIDE	0.47	5%	3W	
R5649	1-215-886-11	METAL OXIDE	100	5%	2W	
R5650	1-216-089-11	RES-CHIP	47K	5%	1/10W	
R5657	1-208-798-11	METAL CHIP	4.7K	0.50%	1/10W	
R5666	1-216-091-00	RES-CHIP	56K	5%	1/10W	
R5669	1-208-789-11	METAL CHIP	2K	0.50%	1/10W	
R5670	1-208-820-11	METAL CHIP	39K	0.50%	1/10W	
R5672	1-216-109-00	RES-CHIP	330K	5%	1/10W	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

REF.NO.	PART NO.	DESCRIPTION		REMARK	
R5678	1-208-804-11	METAL CHIP	8.2K	0.50%	1/10W
R5679	1-249-395-11	CARBON	15	5%	1/4W
R5680	1-249-383-11	CARBON	1.5	5%	1/4W
R5684	1-208-798-11	METAL CHIP	4.7K	0.50%	1/10W
R5685	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W
R5686	1-208-778-11	METAL CHIP	680	0.50%	1/10W
R5688	1-208-782-11	METAL CHIP	1K	0.50%	1/10W
R5689	1-216-017-91	RES-CHIP	47	5%	1/10W
R5690	1-216-017-91	RES-CHIP	47	5%	1/10W
R5692	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W
R5693	1-208-798-11	METAL CHIP	4.7K	0.50%	1/10W
R5694	1-208-798-11	METAL CHIP	4.7K	0.50%	1/10W
R5696	1-208-804-11	METAL CHIP	8.2K	0.50%	1/10W
R5697	1-208-764-11	METAL CHIP	180	0.50%	1/10W
R5698	1-208-801-11	METAL CHIP	6.2K	0.50%	1/10W
R5699	1-216-081-00	RES-CHIP	22K	5%	1/10W
R5700	1-208-810-11	METAL CHIP	15K	0.50%	1/10W
R5702	1-208-782-11	METAL CHIP	1K	0.50%	1/10W
R5704	1-214-657-11	METAL CHIP	1	1%	1/4W
R5705	1-214-657-11	METAL CHIP	1	1%	1/4W
R5707	1-216-017-91	RES-CHIP	47	5%	1/10W
R5708	1-216-429-00	METAL OXIDE	270	5%	1W
R5709	1-216-017-91	RES-CHIP	47	5%	1/10W
R5710	1-216-429-00	METAL OXIDE	270	5%	1W
R5711	1-260-288-11	CARBON	0.47	5%	1/2W
R5712	1-260-288-11	CARBON	0.47	5%	1/2W
R5713	1-215-867-00	METAL OXIDE	470	5%	1W
R5714	1-216-097-11	RES-CHIP	100K	5%	1/10W
R5715	1-216-097-11	RES-CHIP	100K	5%	1/10W
R5716	1-216-049-11	RES-CHIP	1K	5%	1/10W
R5717	1-216-093-91	RES-CHIP	68K	5%	1/10W
R6501	1-208-757-11	METAL CHIP	91	0.50%	1/10W
R6502	1-260-131-11	CARBON	470K	5%	1/2W
R6503	1-208-758-11	METAL CHIP	100	0.50%	1/10W
R6504	1-216-073-00	RES-CHIP	10K	5%	1/10W
R6506	1-249-377-11	CARBON	0.47	5%	1/4W
R6507	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R6508	1-216-073-00	RES-CHIP	10K	5%	1/10W
R6509	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R6510	1-215-859-00	METAL OXIDE	22	5%	1W
R6511	1-216-073-00	RES-CHIP	10K	5%	1/10W
R6512	1-216-073-00	RES-CHIP	10K	5%	1/10W
R6513	1-215-481-00	METAL CHIP	330K	1%	1/4W
R6514	1-215-481-00	METAL CHIP	330K	1%	1/4W
R6515	1-260-131-11	CARBON	470K	5%	1/2W
R6516⚠	1-202-962-11	CEMENTED	3.3	5%	10W
R6517	1-208-804-11	METAL CHIP	8.2K	0.50%	1/10W
R6518	1-208-810-11	METAL CHIP	15K	0.50%	1/10W
R6519	1-216-295-11	SHORT	0		
R6521	1-260-328-11	CARBON	1K	5%	1/2W
R6522	1-216-073-00	RES-CHIP	10K	5%	1/10W
R6523	1-216-081-00	RES-CHIP	22K	5%	1/10W
R6524	1-216-295-11	SHORT	0		
R6525	1-216-041-00	RES-CHIP	470	5%	1/10W
R6526	1-202-933-61	FUSIBLE	0.1	10%	1/2W
R6527	1-216-093-91	RES-CHIP	68K	5%	1/10W
R6528	1-216-025-11	RES-CHIP	100	5%	1/10W
R6529	1-249-393-11	CARBON	10	5%	1/4W
R6530	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R6531	1-249-393-11	CARBON	10	5%	1/4W
R6532	1-216-073-00	RES-CHIP	10K	5%	1/10W
R6533	1-216-073-00	RES-CHIP	10K	5%	1/10W
R6534	1-216-085-00	RES-CHIP	33K	5%	1/10W
R6535	1-216-073-00	RES-CHIP	10K	5%	1/10W
R6536	1-216-073-00	RES-CHIP	10K	5%	1/10W
R6537	1-216-073-00	RES-CHIP	10K	5%	1/10W
R6538	1-216-073-00	RES-CHIP	10K	5%	1/10W
R6539	1-215-900-11	METAL OXIDE	22K	5%	2W
R6540	1-216-049-11	RES-CHIP	1K	5%	1/10W
R6541	1-216-077-91	RES-CHIP	15K	5%	1/10W
R6542	1-216-049-11	RES-CHIP	1K	5%	1/10W
R6543	1-208-842-11	METAL CHIP	330K	0.50%	1/10W
R6544	1-216-295-11	SHORT	0		
R6547	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R6550	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R6552	1-216-081-00	RES-CHIP	22K	5%	1/10W
R6553	1-216-109-00	RES-CHIP	330K	5%	1/10W
R6556	1-217-625-00	METAL CHIP	0.05	10%	2W
R6557	1-216-097-11	RES-CHIP	100K	5%	1/10W
R6583	1-216-077-91	RES-CHIP	15K	5%	1/10W
R6590	1-249-415-11	CARBON	680	5%	1/4W
R6591	1-216-341-11	METAL OXIDE	0.22	5%	1W
R6593	1-249-405-11	CARBON	100	5%	1/4W
R6596	1-215-445-00	METAL CHIP	10K	1%	1/4W
R6597	1-215-469-00	METAL CHIP	100K	1%	1/4W
R6598	1-216-342-21	METAL OXIDE	0.27	5%	1W
R6599	1-249-417-11	CARBON	1K	5%	1/4W
R6600	1-215-445-00	METAL CHIP	10K	1%	1/4W
R6602	1-216-049-11	RES-CHIP	1K	5%	1/10W
R6603	1-216-073-00	RES-CHIP	10K	5%	1/10W
R6604	1-216-073-00	RES-CHIP	10K	5%	1/10W
R6605	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R6612	1-216-089-11	RES-CHIP	47K	5%	1/10W
R6614	1-260-298-51	CARBON	3.3	5%	1/2W
R6646	1-215-481-00	METAL CHIP	330K	1%	1/4W
R8001	1-216-073-00	RES-CHIP	10K	5%	1/10W
R8002	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R8003	1-216-081-00	RES-CHIP	22K	5%	1/10W
R8004	1-216-081-00	RES-CHIP	22K	5%	1/10W
R8005	1-216-081-00	RES-CHIP	22K	5%	1/10W

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

REF.NO.	PART NO.	DESCRIPTION		REMARK	
R8006	1-216-105-91	RES-CHIP	220K	5%	1/10W
R8007	1-216-089-11	RES-CHIP	47K	5%	1/10W
R8008	1-216-081-00	RES-CHIP	22K	5%	1/10W
R8009	1-216-105-91	RES-CHIP	220K	5%	1/10W
R8010	1-216-105-91	RES-CHIP	220K	5%	1/10W
R8011	1-216-105-91	RES-CHIP	220K	5%	1/10W
R8013	1-216-295-11	SHORT	0		
R8016	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R8017	1-216-295-11	SHORT	0		
R8018	1-216-081-00	RES-CHIP	22K	5%	1/10W
R8019	1-216-089-11	RES-CHIP	47K	5%	1/10W
R8020	1-216-081-00	RES-CHIP	22K	5%	1/10W
R8021	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8022	1-216-073-00	RES-CHIP	10K	5%	1/10W
R8023	1-216-081-00	RES-CHIP	22K	5%	1/10W
R8024	1-216-073-00	RES-CHIP	10K	5%	1/10W
R8025	1-208-826-11	METAL CHIP	68K	0.50%	1/10W
R8026	1-216-105-91	RES-CHIP	220K	5%	1/10W
R8027	1-208-826-11	METAL CHIP	68K	0.50%	1/10W
R8028	1-208-810-11	METAL CHIP	15K	0.50%	1/10W
R8029	1-208-826-11	METAL CHIP	68K	0.50%	1/10W
R8030	1-208-830-11	METAL CHIP	100K	0.50%	1/10W
R8031	1-208-830-11	METAL CHIP	100K	0.50%	1/10W
R8032	1-216-073-00	RES-CHIP	10K	5%	1/10W
R8033	1-208-781-11	METAL CHIP	910	0.50%	1/10W
R8034	1-216-091-00	RES-CHIP	56K	5%	1/10W
R8035⚠	1-208-804-11	METAL CHIP	8.2K	0.50%	1/10W
R8036⚠	1-215-444-00	METAL CHIP	9.1K	1%	1/4W
R8037⚠	1-215-444-00	METAL CHIP	9.1K	1%	1/4W
R8038⚠	1-215-444-00	METAL CHIP	9.1K	1%	1/4W
R8039⚠	1-215-444-00	METAL CHIP	9.1K	1%	1/4W
R8040⚠	1-215-444-00	METAL CHIP	9.1K	1%	1/4W
R8041	1-208-782-11	METAL CHIP	1K	0.50%	1/10W
R8042	1-208-806-11	METAL CHIP	10K	0.50%	1/10W
R8043	1-216-349-00	METAL OXIDE	1	5%	1W
R8044	1-208-837-11	METAL CHIP	200K	0.50%	1/10W
R8047	1-216-097-11	RES-CHIP	100K	5%	1/10W
R8049	1-208-758-11	METAL CHIP	100	0.50%	1/10W
R8050	1-211-964-11	METAL CHIP	33	0.50%	1/10W
R8051	1-220-926-11	FUSIBLE	0.47	10%	1/2W
R8053	1-208-842-11	METAL CHIP	330K	0.50%	1/10W
R8054	1-208-842-11	METAL CHIP	330K	0.50%	1/10W
R8055	1-208-842-11	METAL CHIP	330K	0.50%	1/10W
R8056	1-208-804-11	METAL CHIP	8.2K	0.50%	1/10W
R8057	1-208-809-11	METAL CHIP	13K	0.50%	1/10W
R8058	1-249-393-11	CARBON	10	5%	1/4W
R8059	1-216-295-11	SHORT	0		
R8060	1-208-774-11	METAL CHIP	470	0.50%	1/10W
R8061	1-249-393-11	CARBON	10	5%	1/4W
R8062	1-216-073-00	RES-CHIP	10K	5%	1/10W
R8063	1-216-073-00	RES-CHIP	10K	5%	1/10W
R8065	1-216-089-11	RES-CHIP	47K	5%	1/10W
R8066	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8068	1-216-295-11	SHORT	0		
R8069	1-249-419-11	CARBON	1.5K	5%	1/4W
R8070	1-217-611-00	METAL CHIP	0.1	10%	2W
R8071	1-216-073-00	RES-CHIP	10K	5%	1/10W
R8072	1-208-782-11	METAL CHIP	1K	0.50%	1/10W
R8073	1-208-790-11	METAL CHIP	2.2K	0.50%	1/10W
R8074	1-208-790-11	METAL CHIP	2.2K	0.50%	1/10W
R8077	1-208-838-91	METAL CHIP	220K	0.50%	1/10W
R8078	1-208-838-91	METAL CHIP	220K	0.50%	1/10W
R8080	1-249-431-11	CARBON	15K	5%	1/4W
R8081	1-249-377-11	CARBON	0.47	5%	1/4W
R8082	1-216-133-00	RES-CHIP	3.3M	5%	1/10W
R8085	1-219-749-91	CARBON	10K	5%	1/2W
R8086	1-219-746-11	CARBON	1K	5%	1/2W
R8087	1-216-295-11	SHORT	0		
R8089	1-216-089-11	RES-CHIP	47K	5%	1/10W
R8091	1-215-485-00	METAL CHIP	470K	1%	1/4W
R8093	1-216-101-00	RES-CHIP	150K	5%	1/10W
R8095	1-215-485-00	METAL CHIP	470K	1%	1/4W
R8096	1-216-295-11	SHORT	0		
R8098	1-249-441-11	CARBON	100K	5%	1/4W
R8099	1-249-441-11	CARBON	100K	5%	1/4W
R8100	1-249-441-11	CARBON	100K	5%	1/4W
R8101	1-216-101-00	RES-CHIP	150K	5%	1/10W
R8102	1-216-081-00	RES-CHIP	22K	5%	1/10W
R8103	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R8104	1-216-089-11	RES-CHIP	47K	5%	1/10W
R8108	1-216-097-11	RES-CHIP	100K	5%	1/10W
R8109	1-215-922-11	METAL OXIDE	6.8K	5%	3W
R8111	1-215-922-11	METAL OXIDE	6.8K	5%	3W
R8112	1-216-097-11	RES-CHIP	100K	5%	1/10W
R8113	1-216-117-00	RES-CHIP	680K	5%	1/10W
R8114	1-215-922-11	METAL OXIDE	6.8K	5%	3W
R8115	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8116	1-216-486-21	METAL OXIDE	8.2K	5%	3W
R8117	1-216-097-11	RES-CHIP	100K	5%	1/10W
R8118	1-216-085-00	RES-CHIP	33K	5%	1/10W
R8119	1-216-486-21	METAL OXIDE	8.2K	5%	3W
R8123	1-216-025-11	RES-CHIP	100	5%	1/10W
R8124	1-216-073-00	RES-CHIP	10K	5%	1/10W
R8125	1-216-001-00	RES-CHIP	10	5%	1/10W
R8126	1-216-001-00	RES-CHIP	10	5%	1/10W
R8137	1-249-417-11	CARBON	1K	5%	1/4W
R8144	1-216-025-11	RES-CHIP	100	5%	1/10W
R8145	1-216-025-11	RES-CHIP	100	5%	1/10W
R8146	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8147	1-208-826-11	METAL CHIP	68K	0.50%	1/10W

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

The components identified by ⧓ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

REF.NO.	PART NO.	DESCRIPTION			REMARK
R8148	1-208-826-11	METAL CHIP	68K	0.50%	1/10W
R8149	1-208-822-11	METAL CHIP	47K	0.50%	1/10W
R8150	1-216-091-00	RES-CHIP	56K	5%	1/10W
R8151	1-216-091-00	RES-CHIP	56K	5%	1/10W
R8152	1-216-091-00	RES-CHIP	56K	5%	1/10W
R8199	1-249-389-11	CARBON	4.7	5%	1/4W

VARIABLE RESISTOR

REF.NO.	PART NO.	DESCRIPTION	REMARK
⧓ RV8001⚠	1-241-767-21	RES, ADJ, CERMET	100K
⧓ RV8002⚠	1-241-763-11	RES, ADJ, CERMET	4.7K
⧓ RV8003⚠	1-241-764-11	RES, ADJ, CERMET	10K

RELAY

REF.NO.	PART NO.	DESCRIPTION
RY6501⚠	1-755-395-11	RELAY (AC POWER)
RY6502⚠	1-755-214-11	RELAY, AC POWER

SPARK GAP

REF.NO.	PART NO.	DESCRIPTION
SG8002	1-517-499-21	GAP, SPARK
SG8005	1-517-499-21	GAP, SPARK

TRANSFORMER

REF.NO.	PART NO.	DESCRIPTION
T5001	1-435-621-11	TRANSFORMER, HORIZONTAL OUTPUT
T5002	1-435-636-11	TRANSFORMER, HORIZONTAL DRIVE
T6501⚠	1-435-576-12	TRANSFORMER, CONVERTER (PIT)
T8001⚠	1-453-346-11	FBT ASSY NX-6000//J1J4
T8002	1-433-934-11	TRANSFORMER, FERRITE (DFT)

THERMISTOR

REF.NO.	PART NO.	DESCRIPTION
TH5001	1-800-193-00	THERMISTOR
TH5002	1-807-796-11	THERMISTOR

HA

REF.NO.	PART NO.	DESCRIPTION
*	**A-1372-834-A**	**HA BOARD, MOUNTED**

CAPACITOR

REF.NO.	PART NO.	DESCRIPTION			REMARK
C05	1-126-964-11	ELECT	10μF	20%	50V

CONNECTOR

REF.NO.	PART NO.	DESCRIPTION	REMARK
*CN01	1-564-515-11	PLUG, CONNECTOR	12P

DIODE

REF.NO.	PART NO.	DESCRIPTION
D01	8-719-074-84	DIODE LNK0120022G1
D02	8-719-074-84	DIODE LNK0120022G1
D07	8-719-109-89	DIODE RD5.6ES-T1B2

IC

REF.NO.	PART NO.	DESCRIPTION
IC01	8-742-205-20	HYB IC SBX3081-01(20)

RESISTOR

REF.NO.	PART NO.	DESCRIPTION			REMARK
R03	1-249-429-11	CARBON	10K	5%	1/4W
R04	1-249-385-11	CARBON	2.2	5%	1/4W
R05	1-247-807-31	CARBON	100	5%	1/4W
R07	1-249-409-11	CARBON	220	5%	1/4W
R08	1-249-409-11	CARBON	220	5%	1/4W
R09	1-249-433-11	CARBON	22K	5%	1/4W
R12	1-215-445-00	METAL CHIP	10K	1%	1/4W
R14	1-215-437-00	METAL CHIP	4.7K	1%	1/4W
R15	1-215-431-00	METAL CHIP	2.7K	1%	1/4W
R16	1-215-427-00	METAL CHIP	1.8K	1%	1/4W
R17	1-215-425-00	METAL CHIP	1.5K	1%	1/4W
R18	1-215-421-00	METAL CHIP	1K	1%	1/4W
R19	1-215-419-00	METAL CHIP	820	1%	1/4W
R20	1-215-415-00	METAL CHIP	560	1%	1/4W
R21	1-215-413-00	METAL CHIP	470	1%	1/4W
R22	1-215-413-00	METAL CHIP	470	1%	1/4W

SWITCH

REF.NO.	PART NO.	DESCRIPTION	
S01	1-571-032-11	SWITCH PUSH	(1 KEY)
S02	1-762-837-11	SWITCH TACTILE	
S03	1-762-837-11	SWITCH TACTILE	
S04	1-762-837-11	SWITCH TACTILE	
S05	1-762-837-11	SWITCH TACTILE	
S06	1-692-431-21	SWITCH TACTILE	
S07	1-692-431-21	SWITCH TACTILE	
S08	1-692-431-21	SWITCH TACTILE	
S09	1-692-431-21	SWITCH TACTILE	
S10	1-692-431-21	SWITCH TACTILE	
S11	1-692-431-21	SWITCH TACTILE	

HB

REF.NO.	PART NO.	DESCRIPTION
*	**A-1372-904-A**	**HB (COM) BOARD, MOUNTED**

CAPACITOR

REF.NO.	PART NO.	DESCRIPTION	REMARK
C4504	1-126-964-11	ELECT	10µF 20% 50V
C4505	1-126-964-11	ELECT	10µF 20% 50V

CONNECTOR

REF.NO.	PART NO.	DESCRIPTION	REMARK
CN4503	1-764-334-11	PLUG, CONNECTOR	11P

DIODE

REF.NO.	PART NO.	DESCRIPTION	REMARK
D4503	8-719-977-28	DIODE UDZS-TE17-10B	
D4505	8-719-977-28	DIODE UDZS-TE17-10B	
D4506	8-719-977-28	DIODE UDZS-TE17-10B	

FILTER

REF.NO.	PART NO.	DESCRIPTION	REMARK
FL4501	1-239-583-21	FILTER, EMI	
FL4502	1-239-583-21	FILTER, EMI	
FL4503	1-239-583-21	FILTER, EMI	

JACK

REF.NO.	PART NO.	DESCRIPTION	REMARK
J4501	1-770-053-11	TERMINAL BLOCK, S (LIGHT ANGLE)	

RESISTOR

REF.NO.	PART NO.	DESCRIPTION	REMARK
R4506	1-216-113-00	RES-CHIP	470K 5% 1/10W
R4507	1-216-113-00	RES-CHIP	470K 5% 1/10W
R4509	1-216-049-11	RES-CHIP	1K 5% 1/10W
R4511	1-216-295-11	SHORT	0
R4512	1-216-295-11	SHORT	0
R4513	1-216-295-11	SHORT	0

U

*** A-1373-817-A U (COM) BOARD, MOUNTED**

CAPACITOR

REF.NO.	PART NO.	DESCRIPTION	REMARK
C2405	1-126-964-11	ELECT	10µF 20% 50V
C2406	1-126-791-11	ELECT	10µF 20% 16V
C2407	1-126-964-11	ELECT	10µF 20% 50V
C2408	1-126-791-11	ELECT	10µF 20% 16V
C2409	1-126-964-11	ELECT	10µF 20% 50V
C2410	1-126-964-11	ELECT	10µF 20% 50V
C2411	1-126-926-11	ELECT	1000µF 20% 10V
C2412	1-126-964-11	ELECT	10µF 20% 50V
C2413	1-126-964-11	ELECT	10µF 20% 50V
C2414	1-126-791-11	ELECT	10µF 20% 16V
C2415	1-126-964-11	ELECT	10µF 20% 50V

CONNECTOR

REF.NO.	PART NO.	DESCRIPTION	REMARK
*CN2401	1-785-303-11	CONNECTOR, DIN (PLUG)	64P

DIODE

REF.NO.	PART NO.	DESCRIPTION	REMARK
D2401	8-719-977-28	DIODE UDZS-TE17-10B	
D2402	8-719-977-28	DIODE UDZS-TE17-10B	
D2403	8-719-977-28	DIODE UDZS-TE17-10B	
D2405	8-719-977-28	DIODE UDZS-TE17-10B	
D2406	8-719-977-28	DIODE UDZS-TE17-10B	
D2407	8-719-977-28	DIODE UDZS-TE17-10B	
D2409	8-719-977-28	DIODE UDZS-TE17-10B	
D2410	8-719-800-76	DIODE MA153-TX	
D2411	8-719-977-28	DIODE UDZS-TE17-10B	
D2412	8-719-800-76	DIODE MA153-TX	
D2413	8-719-800-76	DIODE MA153-TX	
D2414	8-719-800-76	DIODE MA153-TX	
D2415	8-719-800-76	DIODE MA153-TX	
D2416	8-719-800-76	DIODE MA153-TX	
D2423	8-719-800-76	DIODE MA153-TX	
D2424	8-719-800-76	DIODE MA153-TX	
D2425	8-719-800-76	DIODE MA153-TX	
D2426	8-719-800-76	DIODE MA153-TX	
D2427	8-719-800-76	DIODE MA153-TX	
D2428	8-719-800-76	DIODE MA153-TX	
D2429	8-719-977-28	DIODE UDZS-TE17-10B	
D2430	8-719-977-28	DIODE UDZS-TE17-10B	
D2431	8-719-977-28	DIODE UDZS-TE17-10B	
D2432	8-719-977-28	DIODE UDZS-TE17-10B	
D2433	8-719-977-28	DIODE UDZS-TE17-10B	
D2434	8-719-977-28	DIODE UDZS-TE17-10B	

JACK

REF.NO.	PART NO.	DESCRIPTION	REMARK
J2401	1-573-967-12	BLOCK, (S) TERMINAL	
J2402	1-750-517-11	JACK BLOCK, PIN 3P	
J2403	1-750-517-11	JACK BLOCK, PIN 3P	
J2405	1-764-143-11	JACK	
J2406	1-764-143-11	JACK	
J2407	1-774-358-11	JACK BLOCK, PIN	
J2408	1-774-358-11	JACK BLOCK, PIN	
J2409	1-750-516-11	JACK BLOCK, PIN 2P	

U S

RESISTOR

REF.NO.	PART NO.	DESCRIPTION			REMARK
R2401	1-216-113-00	RES-CHIP	470K	5%	1/10W
R2402	1-216-113-00	RES-CHIP	470K	5%	1/10W
R2403	1-216-113-00	RES-CHIP	470K	5%	1/10W
R2407	1-216-113-00	RES-CHIP	470K	5%	1/10W
R2408	1-216-113-00	RES-CHIP	470K	5%	1/10W
R2409	1-216-113-00	RES-CHIP	470K	5%	1/10W
R2428	1-216-113-00	RES-CHIP	470K	5%	1/10W
R2430	1-216-113-00	RES-CHIP	470K	5%	1/10W
R2431	1-216-113-00	RES-CHIP	470K	5%	1/10W
R2432	1-216-113-00	RES-CHIP	470K	5%	1/10W
R2433	1-216-113-00	RES-CHIP	470K	5%	1/10W
R2434	1-216-021-00	RES-CHIP	68	5%	1/10W
R2435	1-216-295-11	SHORT	0		
R2436	1-216-295-11	SHORT	0		

S

* **A-1391-048-A** **S BOARD, MOUNTED**

CAPACITOR

REF.NO.	PART NO.	DESCRIPTION			REMARK
C4101	1-126-964-11	ELECT	10μF	20%	50V
C4102	1-126-964-11	ELECT	10μF	20%	50V
C4103	1-126-959-11	ELECT	0.47μF	20%	50V
C4104	1-126-959-11	ELECT	0.47μF	20%	50V
C4105	1-126-968-11	ELECT	100μF	20%	50V
C4106	1-126-968-11	ELECT	100μF	20%	50V
C4107	1-115-339-11	CERAMIC CHIP	0.1μF	10%	50V
C4108	1-126-964-11	ELECT	10μF	20%	50V
C4109	1-126-964-11	ELECT	10μF	20%	50V
C4110	1-115-340-11	CERAMIC CHIP	0.22μF	10%	25V
C4111	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C4112	1-163-017-00	CERAMIC CHIP	.0047μF	10%	50V
C4113	1-115-340-11	CERAMIC CHIP	0.22μF	10%	25V
C4114	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C4115	1-163-017-00	CERAMIC CHIP	.0047μF	10%	50V
C4116	1-163-017-00	CERAMIC CHIP	.0047μF	10%	50V
C4117	1-126-968-11	ELECT	100μF	20%	50V

CONNECTOR

REF.NO.	PART NO.	DESCRIPTION	REMARK
CN4101	1-573-299-21	CONNECTOR, BOARD TO BOARD 10P	

DIODE

REF.NO.	PART NO.	DESCRIPTION	REMARK
D4101	8-719-914-43	DIODE DAN202K-T-146	
D4102	8-719-914-44	DIODE DAP202K-T-146	

IC

REF.NO.	PART NO.	DESCRIPTION		REMARK
IC4101	8-759-686-15	IC NJM2180M	(TE2)	
IC4102	8-759-711-10	IC NJU4066BM-T1		
IC4103	8-752-058-68	IC CXA1315M-T4		

COIL

REF.NO.	PART NO.	DESCRIPTION		REMARK
L4101	1-408-607-31	INDUCTOR	22μH	

RESISTOR

REF.NO.	PART NO.	DESCRIPTION			REMARK
R4101	1-216-071-00	RES-CHIP	8.2K	5%	1/10W
R4102	1-216-071-00	RES-CHIP	8.2K	5%	1/10W
R4103	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
R4104	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
R4105	1-216-073-00	RES-CHIP	10K	5%	1/10W
R4106	1-216-097-11	RES-CHIP	100K	5%	1/10W
R4107	1-216-097-11	RES-CHIP	100K	5%	1/10W
R4108	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R4109	1-216-063-91	RES-CHIP	3.9K	5%	1/10W
R4110	1-216-063-91	RES-CHIP	3.9K	5%	1/10W
R4111	1-216-073-00	RES-CHIP	10K	5%	1/10W
R4112	1-216-049-11	RES-CHIP	1K	5%	1/10W
R4113	1-216-091-00	RES-CHIP	56K	5%	1/10W
R4114	1-216-295-11	SHORT	0		
R4115	1-216-295-11	SHORT	0		
R4116	1-216-089-11	RES-CHIP	47K	5%	1/10W
R4117	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R4118	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
R4119	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R4120	1-216-073-00	RES-CHIP	10K	5%	1/10W
R4121	1-216-077-91	RES-CHIP	15K	5%	1/10W
R4123	1-216-073-00	RES-CHIP	10K	5%	1/10W
R4124	1-216-049-11	RES-CHIP	1K	5%	1/10W
R4125	1-216-101-00	RES-CHIP	150K	5%	1/10W
R4126	1-216-081-00	RES-CHIP	22K	5%	1/10W
R4127	1-216-073-00	RES-CHIP	10K	5%	1/10W
R4128	1-216-091-00	RES-CHIP	56K	5%	1/10W
R4129	1-216-073-00	RES-CHIP	10K	5%	1/10W
R4130	1-216-053-00	RES-CHIP	1.5K	5%	1/10W

REF.NO.	PART NO.	DESCRIPTION			REMARK
R4131	1-216-129-00	RES-CHIP	2.2M	5%	1/10W
R4132	1-216-085-00	RES-CHIP	33K	5%	1/10W
R4133	1-216-092-00	RES-CHIP	62K	5%	1/10W
R4134	1-216-073-00	RES-CHIP	10K	5%	1/10W
R4135	1-216-017-91	RES-CHIP	47	5%	1/10W
R4136	1-216-017-91	RES-CHIP	47	5%	1/10W

W

REF.NO.	PART NO.	DESCRIPTION			REMARK
*	**A-1372-833-A**	**W BOARD, MOUNTED**			
	4-382-854-01	SCREW (M3X8), P, SW (+)			

CAPACITOR

REF.NO.	PART NO.	DESCRIPTION			REMARK
C9101	1-107-364-11	MYLAR	0.01μF	10%	200V
C9102	1-107-364-11	MYLAR	0.01μF	10%	200V
C9103	1-163-009-11	CERAMIC CHIP	0.001μF	10%	50V
C9104	1-163-009-11	CERAMIC CHIP	0.001μF	10%	50V
C9105	1-104-999-11	MYLAR	0.1μF	10%	200V
C9106	1-107-667-11	ELECT	2.2μF	20%	160V
C9107	1-126-935-11	ELECT	470μF	20%	16V
C9108	1-126-935-11	ELECT	470μF	20%	16V
C9109	1-107-963-11	ELECT	33μF	20%	160V
C9112	1-126-933-11	ELECT	100μF	20%	16V
C9113	1-126-933-11	ELECT	100μF	20%	16V
C9115	1-126-935-11	ELECT	470μF	20%	6.3V
C9116	1-126-935-11	ELECT	470μF	20%	6.3V
C9117	1-104-999-11	MYLAR	0.1μF	10%	200V

CONNECTOR

REF.NO.	PART NO.	DESCRIPTION			REMARK
*CN9101	1-564-506-11	PLUG, CONNECTOR		3P	
*CN9102	1-564-515-11	PLUG, CONNECTOR		12P	
*CN9103	1-564-506-11	PLUG, CONNECTOR		3P	
*CN9104	1-770-747-11	CONNECTOR, BOARD TO BOARD		12P	

DIODE

REF.NO.	PART NO.	DESCRIPTION			REMARK
D9101	8-719-924-11	DIODE MTZJ-T-77-22			
D9102	8-719-924-11	DIODE MTZJ-T-77-22			
D9103	8-719-073-01	DIODE MA111-TX			
D9104	8-719-073-01	DIODE MA111-TX			
D9105	8-719-073-01	DIODE MA111-TX			
D9106	8-719-073-01	DIODE MA111-TX			
D9107	8-719-510-02	DIODE D1NS4-TR			

COIL

REF.NO.	PART NO.	DESCRIPTION			REMARK
L9101	1-412-525-31	INDUCTOR	10μH		

TRANSISTOR

REF.NO.	PART NO.	DESCRIPTION			REMARK
Q9101	8-729-045-05	TRANSISTOR 2SA2005			
Q9102	8-729-045-04	TRANSISTOR 2SC5511			
Q9103	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX			
Q9104	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX			
Q9105	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR			
Q9106	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX			
Q9107	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR			
Q9108	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX			

RESISTOR

REF.NO.	PART NO.	DESCRIPTION			REMARK
R9102	1-249-414-11	CARBON	560	5%	1/4W
R9103	1-249-432-11	CARBON	18K	5%	1/4W
R9104	1-249-432-11	CARBON	18K	5%	1/4W
R9105	1-249-414-11	CARBON	560	5%	1/4W
R9106	1-249-421-11	CARBON	2.2K	5%	1/4W
R9107	1-249-421-11	CARBON	2.2K	5%	1/4W
R9108	1-260-316-51	CARBON	100	5%	1/2W
R9109	1-249-385-11	CARBON	2.2	5%	1/4W
R9110	1-249-385-11	CARBON	2.2	5%	1/4W
R9111	1-249-405-11	CARBON	100	5%	1/4W
R9112	1-215-915-11	METAL OXIDE	470	5%	3W
R9113	1-216-017-91	RES-CHIP	47	5%	1/10W
R9114	1-249-425-11	CARBON	4.7K	5%	1/4W
R9115	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R9117	1-216-047-91	RES-CHIP	820	5%	1/10W
R9118	1-249-405-11	CARBON	100	5%	1/4W
R9119	1-249-399-11	CARBON	33	5%	1/4W
R9120	1-247-807-31	CARBON	100	5%	1/4W
R9121	1-249-409-11	CARBON	220	5%	1/4W
R9122	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R9123	1-249-401-11	CARBON	47	5%	1/4W
R9124	1-249-401-11	CARBON	47	5%	1/4W
R9125	1-216-073-00	RES-CHIP	10K	5%	1/10W
R9126	1-249-395-11	CARBON	15	5%	1/4W
R9127	1-216-005-00	RES-CHIP	15	5%	1/10W
R9128	1-216-295-11	SHORT	0		

ACCESSORIES AND PACKING MATERIALS

REF.NO.	PART NO.	DESCRIPTION	REMARK
*	4-041-259-01	BAG, PROTECTION (KV-32XBR400 only)	
*	4-066-646-02	BAG, PROTECTION (KV-36XBR400/38DRC1/38DRC1C/36XBR400H only)	
*	4-075-743-03	CARTON, INDIVIDUAL (KV-32XBR400 only)	
*	4-076-526-02	CARTON, INDIVIDUAL (KV-36XBR400/38DRC1/38DRC1C/36XBR400H only)	
*	4-075-733-03	CUSHION ASSY, UPPER (REAR) (KV-32XBR400 only)	
*	4-075-734-02	CUSHION ASSY, UPPER (KV-32XBR400 only)	
*	4-076-522-02	CUSHION ASSY, UPPER (FRONT) (KV-36XBR400/38DRC1/38DRC1C/36XBR400H only)	
*	4-075-735-03	CUSHION ASSY, LOWER (KV-32XBR400 only)	
	4-076-523-01	CUSHION ASSY, LOWER (KV-36XBR400/38DRC1/38DRC1C/36XBR400H only)	
	4-075-727-21	MANUAL, INSTRUCTION (KV-32XBR400(U/C)/36XBR400(U/C) only)	
	4-075-727-31	MANUAL, INSTRUCTION (KV-32XBR400(CND)/36XBR400(CND) only)	
	4-077-337-41	MANUAL, INSTRUCTION (KV-38DRC1/38DRC1C only)	

REMOTE COMMANDER

REF.NO.	PART NO.	DESCRIPTION	REMARK
	1-476-094-12	REMOTE COMMANDER (RM-Y174)	
	4-978-977-01	BATTERY COVER (for RM-Y174)	

NOTES:

NOTES:

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Self Diagnosis
Supported model

SERVICE MANUAL

DX-1A CHASSIS

MODEL	COMMANDER	DEST	CHASSIS NO.
KV-32XBR400	RM-Y174	US	SCC-S47A-A
KV-32XBR400	RM-Y174	CND	SCC-S48A-A
KV-36XBR400	RM-Y174	US	SCC-S47B-A
KV-36XBR400	RM-Y174	CND	SCC-S48B-A
KV-38DRC1	RM-Y174	E	SCC-S49A-A
KV-38DRC1C	RM-Y174	E	SCC-S49B-A
KV-36XBR400H	RM-Y174	HAWAII	SCC-S54A-A

SUPPLEMENT-1

Subject: New Critical Classification on the D Board; Corrected Electrical Parts List

Correct the service manual as shown below.
File this correction with the service manual.

☞ : **Corrected Portion**

Section 6: Diagrams (D Board (1/3) - Page 69)

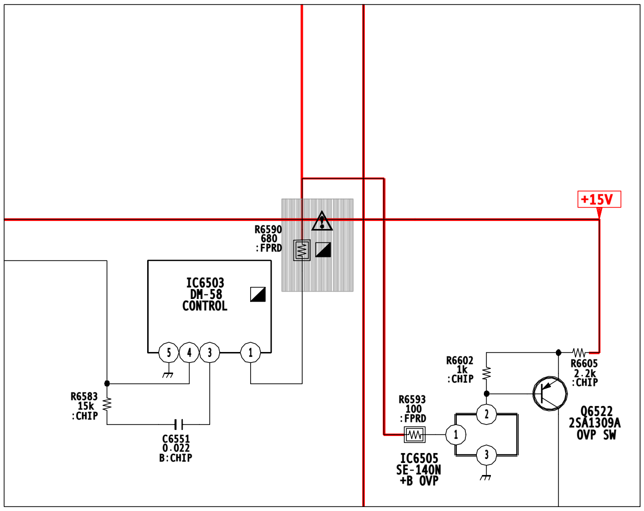
Section 8: Electrical Parts List (Page 108 & 112)

TRINITRON® COLOR TV

SONY®

Section 6: Diagrams (D Board (1/3) - Page 69)

Incorrect **Correct**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R6590
680
:FPRD
IC6503
DM-58
CONTROL
5
4
3
1
R6583
15k
:CHIP
C6551
0.022
B:CHIP
R6602
1k
:CHIP
R6605
2.2k
:CHIP
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3
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+B OVP
Q6522
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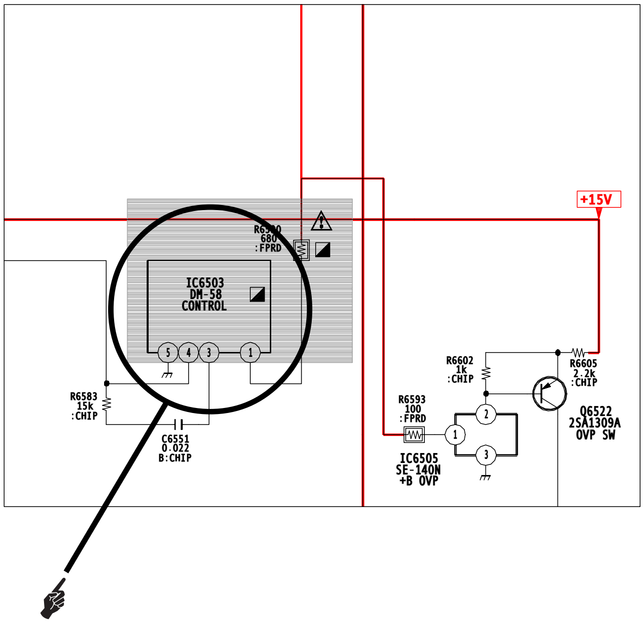
OVP SW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IC6503
DM-58
CONTROL
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R6583
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1k
:CHIP
R6605
2.2k
:CHIP
R6593
100
:FPRD
1
2
3
IC6505
SE-140N
+B OVP
Q6522
2SA1309A
OVP SW

Section 8: Electrical Parts List (Page 108 & 112)

Incorrect

REF.NO.	PART NO.	DESCRIPTION			REMARK
R6590	1-249-415-11	CARBON	680	5%	1/4W
IC6503	8-749-012-13	IC DM-58			

Correct

REF.NO.	PART NO.	DESCRIPTION			REMARK
R6590⚠	1-249-415-11	CARBON	680	5%	1/4W
IC6503⚠	8-749-012-13	IC DM-58			

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Self Diagnosis Supported model

SERVICE MANUAL DX-1A CHASSIS

MODEL	COMMANDER	DEST	CHASSIS NO.
KV-32XBR400	*RM-Y174*	*US*	*SCC-S47A-A*
KV-32XBR400	*RM-Y174*	*CND*	*SCC-S48A-A*
KV-36XBR400	*RM-Y174*	*US*	*SCC-S47B-A*
KV-36XBR400	*RM-Y174*	*CND*	*SCC-S48B-A*
KV-38DRC1	*RM-Y174*	*E*	*SCC-S49A-A*
KV-38DRC1C	*RM-Y174*	*E*	*SCC-S49B-A*
KV-36XBR400H	*RM-Y174*	*HAWAII*	*SCC-S54A-A*

SUPPLEMENT-2

Subject: Revised Exploded View (Picture Tube)
Critical Part Identified (Chassis)

Correct the service manual as shown below.
File this correction with the service manual.

☞ : Corrected Portion

Section 7-1: Exploded Views - Chassis (Page 76)
Section 7-2: Exploded Views - Picture Tube (Page 78)

7-1: Exploded Views - Chassis (Page 76)

Incorrect

REF.NO.	PART NO.	DESCRIPTION	REMARK
*15	4-075-829-01	BRACKET, U	

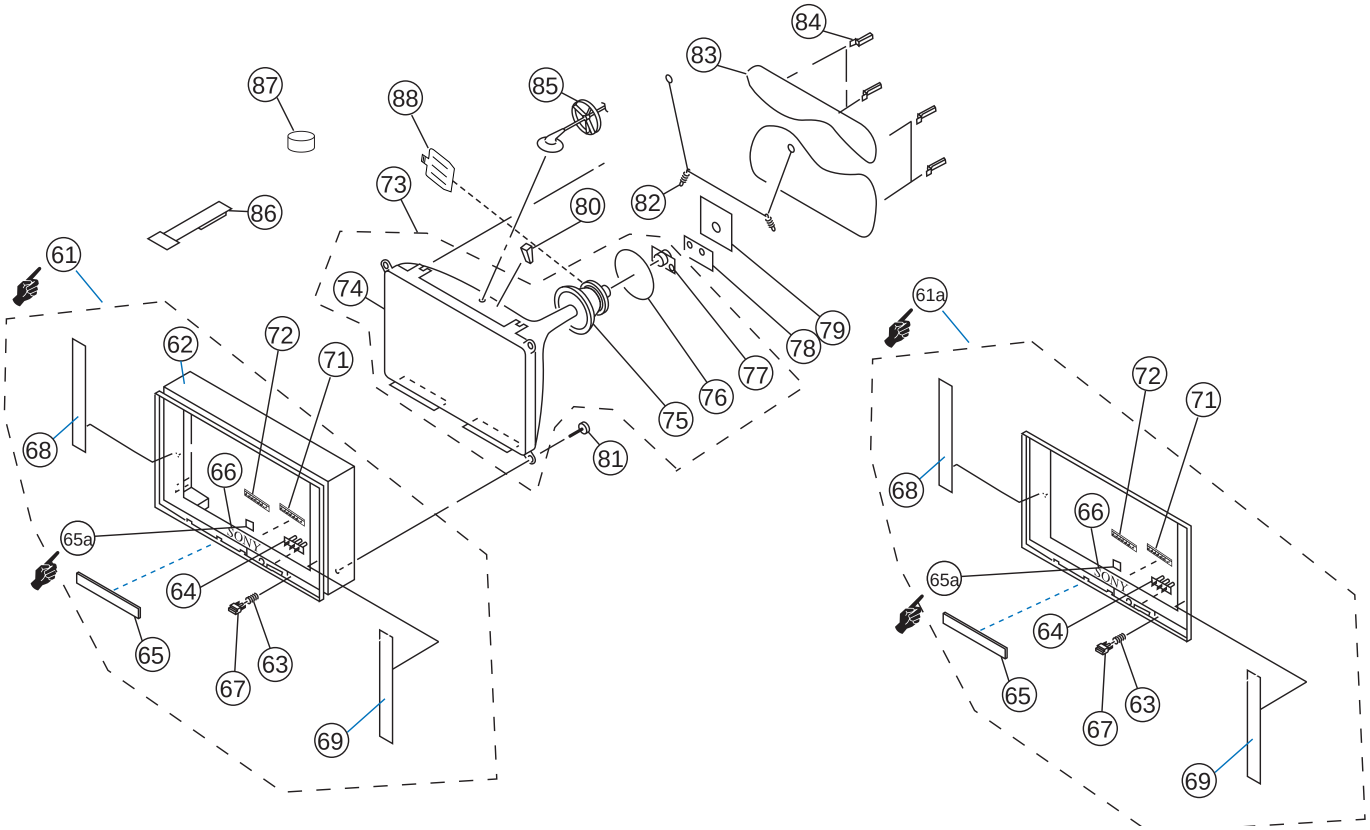
Correct

REF.NO.	PART NO.	DESCRIPTION	REMARK
*15 ⚠	4-075-829-01	BRACKET, U (Antenna Terminal Board)	
☞			

TRINITRON® COLOR TV

SONY®

Section 7-2: EXPLODED VIEW - PICTURE TUBE



REF.NO.	PART NO.	DESCRIPTION	REMARK
61	A-1017-235-A	BEZNET COMPLETE ASSY	(62-69)
		(KV-32XBR400 only)	
61	A-1017-236-A	BEZNET COMPLETE ASSY	(62-69)
		(KV-36XBR400/38DRC1/38DRC1C/36XBR400H only)	
61a	A-1017-297-A	BEZEL COMPLETE ASSY	(63-69)
		(KV-32XBR400 only)	
61a	A-1017-298-A	BEZEL COMPLET EASSY	(63-69)
		(KV-36XBR400/38DRC1/38DRC1C/36XBR400H only)	
62		CABINET	
63	4-042-593-11 *	SPRING, COMPRESSION	
64	4-075-823-01	GUIDE, LED	
65	4-075-822-11	DOOR, PAINTED	
65a	4-076-673-02	DAMPER, DOOR	
66	3-704-179-81	EMBLEM (NO.9), SONY	
67	4-075-824-11	BUTTON, POWER, PAINTED	
68		GRILL, SPEAKER (L)	
69		GRILL, SPEAKER (R)	
71	4-075-825-01	BUTTON, MULTI	
72	4-075-826-01	BUTTON, MENU	
73	8-735-048-62⚠	ITC 38RSN-C1 (A1597344A)	(74-77)
		(KV-36XBR400 only)	
73	8-735-081-62⚠	ITC 38RSN-C1M (A1597346A)	(74-77)
		(KV-38DRC1/36XBR400H only)	
73	8-735-080-63⚠	ITC 38RSN-C1E (A15974345A)	(74-77)
		(KV-38DRC1 only)	

REF.NO.	PART NO.	DESCRIPTION	REMARK
74	8-735-047-05⚠	CRT 34RSN (A80LPD80X)	
		(KV-32XBR400 only)	
75	8-451-512-21⚠	DY Y34RSC-M	
		(KV-32XBR400 only)	
76	1-451-498-21	COIL, NA ROTATION	
		(KV-32XBR400 only)	
77	8-453-009-21 *	NA325-M2	
78	A-1372-833-A	W MOUNTED PC BOARD	
79	A-1332-075-A	C MOUNTED PC BOARD	
80	4-053-005-01	SPACER, DY	
		(KV-32XBR400 only)	
81	4-046-765-12	SCREW, TAPPING 7+CROWN WASHER	
82	4-036-329-01	SPRING (B), TENSION	
83	1-416-827-21⚠	COIL, DEGAUSSING	
		(KV-32XBR400 only)	
83	1-416-828-41⚠	COIL, DEGAUSSING	
		(KV-36XBR400/38DRC1/36XBR400H only)	
83	1-419-193-11⚠	COIL, DEGAUSSING	
		(KV-38DRC1C only)	
84	4-065-895-04	HOLDER, DGC	
85	3-704-372-31	HOLDER, HV CABLE	
86	4-062-047-02	PIECE A(110), CONV CORRECT	
87	1-452-885-11	MAGNET, LANDING	
88	4-057-714-01	PIECE, TLH CONVERGENCE	
		(KV-32XBR400 only)	

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